



DAYANANDA SAGAR UNIVERSITY
SCHOOL OF ENGINEERING
(A State Private University under the Karnataka Act No.20 of 2013)
Approved by UGC & AICTE, New Delhi.



Department of Electronics and communication engineering

To,

The CEO and Managing Partner,
Jeev Lifeworks
Bangalore

Date: 13-July -2022

Respected sir,

Subject: Permission to take up Internship/Project.

Dayananda Sagar University is a proud member of Dayananda Sagar Institutions family founded in the 60s by late Sri Dayananda Sagar, committed to take knowledge to the people, transforms today's students into responsible citizens and professional leaders of tomorrow. DSU – innovation centers include automotive system lab by Etas (Bosch), Design and Innovation Centre (Autodesk), Centre of competence for Automation Technologies (A Joint Initiative of Bosch Rexroth & DSU), IBM Software Lab for Emerging technologies.

With its best-in-class facilities, DSU offers the students a challenging academic environment with well-equipped lecture theatres, laboratories, excellent libraries and computer networking facilities. Research, Innovation and Incubation form the core of DSU. As a part of academic curriculum this is to inform you that student **Ms.Swathi M bearing USN ENG19EC0098** of Electronics and Communication Engineering, studying in 7th semester of B.TECH in DSU, would like to do the internship/project.

I kindly request you to provide the opportunity, for the period of July 2022 to September 2022 at your esteemed organization and oblige.

Thank you,

Dr.Vaibhav AM
Professor and Chairman
School of Engineering ECE dept.
DSU Bangalore

Chairman,
Dept. of Electronics and Communication Engineering
School of Engineering,
Dayananda Sagar University,
Kudlu Gate, Hosur Main Road,
Bengaluru - 560 068

Date: 13-Jul-2022

To:
Swathi M,
Student of Dayanand Sagar University
swathiimaha@gmail.com

Sub: Internship Admission – Application development.

Dear Swathi,

I am pleased to inform you that you have been selected for our two-month internship program starting 14-Jul-2022 through 16-Sep-2022.

You would be part of the team developing a python based microservice. You would need to be familiar with Python and Flask technologies and proficient in data structures, algorithms, and standard python libraries. You will have to commit to complete the assigned tasks in the expected duration independently. You must be reporting the progress to your team leader in daily scrum stand-up meetings.

Please report on 14-Jul-2022 by 10 AM at our office along with your Institution ID Card, Aadhar Card and a passport sized photograph to complete the joining formalities.

Wish you the best for the successful completion of the project.

For Jeev Lifeworks LLP.

For Jeev Lifeworks LLP.

Managing Partner

Ajitha K. S

CEO and Managing Partner

ajitha.ks@jeevlifeworks.com

+91 9900600608



Machstatz Business Solutions Pvt. Ltd.
Flat – 102, Nandini Elegance – 4, Kalena Agrahara,
Bannerghatta Road, South Bengaluru – 5600076.

OFFER OF INTERNSHIP

Dated : 4th May 2022

Student Name : Karthik Sanjay Nayak

College – Dayananda Sagar University

Dear Karthik,

Machstatz is pleased to offer you an internship opportunity as Back-End Developer-Intern. Your first day of the work will be from 05-05-2022. Your duties and assignments for this position will be those described to you in your orientation programme.

Location: Remote. However, you may be required to be present in the office as per the business need on some days.

Stipend : Unpaid

Roles & Responsibilities in brief:

1. Backend Development in Python
2. AI/ML

If you have any questions please let us know. Please review, sign and return a scan copy via email (vithica.dabral@machstatz.com) to confirm your acceptance.

Congratulations and Welcome to the Team !!!

For Machstatz Business Solutions Pvt Ltd.

A.Srikant Gupta
Co-Founder & Chief Operations Officer
Machstatz Business Solutions Pvt. Ltd.

(Karthik Sanjay Nayak)



CERTIFICATE



Dayananda Sagar
University

Training on Industrial Automation Technology

This is to certify that

ADITYA SHESHADRI

Student of Dayananda Sagar University Bengaluru

has successfully completed Two Months Internship on Programmable Logic Controller

From March 7th to May 10th - 2022

At Dayananda Sagar University Centre of Competence for Automation Technologies in
collaboration with Bosch Rexroth India

Mr. Milind Tavre
Asst. Manager
Bosch Rexroth(India) Pvt. Ltd.

Ms. K. Sudha Deepthi
Manager & Certified Trainer
Bosch Rexroth Innovation lab, DSU

Mr. M.N. Guru Venkatesh
Vice President - Placements &
Skill Development Center, DSU



TriSpace Technologies Pvt. Ltd.

(CIN : U72200KA2015^{OP}C084504)

N. Vijay Anand
Director

#107, Harshitha Meridien,
90, Rose Garden Road,
J.P. Nagar 5th Phase,
Bengaluru - 560 078.

Mobile : +91 9482165713
E-mail : nvijay.anand@trispacetech.com

Internship Experience Certificate

This is to certify that Ili Sandhya has completed internship assignment with us. We wish her success.

Bengaluru
15-April-2022

N. Vijay Anand
Director



PERSONIFWY

INTERNSHIP CERTIFICATE

THIS IS TO CERTIFY THAT

Arun Kumar M

has successfully completed internship program in **Artificial Intelligence..**
from 20th Mar, 2022 to 20th May, 2022. During the internship, the student
was found to be dedicated, hardworking and diligent.



Academic Head



Director Signature

PERSONIFWY

INTERNSHIP CERTIFICATE

THIS IS TO CERTIFY THAT

Bahul Dev M

has successfully completed internship program in **Artificial Intelligence..**
from 20th Mar, 2022 to 20th May, 2022. During the internship, the student
was found to be dedicated, hardworking and diligent.



Academic Head



Director Signature

PERSONIFWY

INTERNSHIP CERTIFICATE

THIS IS TO CERTIFY THAT

Bindu N

has successfully completed internship program in **Artificial Intelligence..**
from 20th Mar, 2022 to 20th May, 2022. During the internship, the student
was found to be dedicated, hardworking and diligent.



Academic Head



Director Signature

भारत इलेक्ट्रॉनिक्स लिमिटेड
BHARAT ELECTRONICS LIMITED
केन्द्रीय अनुसंधान प्रयोगशाला
CENTRAL RESEARCH LABORATORY
(मानव संसाधन व प्रशासन)
(HR & ADMINISTRATION)

08th July 2022

No. 4886/Project/CRI/HR&A/2022

Sub: Internship Training

विषय: इंटरनशिप प्रशिक्षण

As approved by the Management, the following students have been admitted for Internship Training as per the details mentioned below:

Sl .No	Name of Student	Name of Institute and Education	Internship Trainee No	Period		Group
				From	To	
1	Revathi R	Dayananda Sagar University, Kudlu Gate, Hosur Main Road, B.Tech (E&C)	PT502	08.07.2022	30.07.2022	CMW
2	Sanmathi C		PT503			

Note: The following instructions are important:

1. Further Extension of Internship Training not allowed.
2. Student must adhere strictly to our discipline, attendance and safety practices.
3. Student is not permitted to bring Mobile Phone and also should not carry any official drawing/documents.

Sandhya B.N
MANAGER (HR&A)

CC. TO:

M (SRS) / CMW

DGM (IP)

SENIOR SECURITY OFFICER

INDIVIDUAL

CHIEF SCIENTIST FOR KIND INFORMATION



TCL/HR/2021/1316

11th August 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that. Mr. Indraneel Mukherjee, student of Dayananda Sagar University, Electronics & Communication Engineering has carried out his Industrial Internship at Tata Cummins Private Limited, Jamshedpur from July 09, 2021 to August 09, 2021.

During this period, he has worked on the project "**Introducing PM Sensor in the After - Treatment System of Diesel Engine**" at Application Engineering department under the guidance of Mr. Subrat Khatua, Executive Manager – Application Engineering.

Indraneel' s performance during the project was outstanding. His efforts during the project were sincere and systematic. He showed keen interest in learning new things and has contributed to the project assigned to him. He has also maintained high standards of discipline and has followed the company norms.

We wish him success in his academic endeavors.

For Tata Cummins Private Limited

Uma Nagavelu
Senior Manager – Human Resources



CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Chidrup Y

participated in "Web Development"
from 10th Jun, 2021 to 10th Aug, 2021
and successfully completed the program.

15-Sep-2021

DATE

A handwritten signature in black ink, appearing to read 'Paul Mathew. I'.

PAUL MATHEW. I
OVERALL COORDINATOR

PERSONIFWY

INTERNSHIP CERTIFICATE

THIS IS TO CERTIFY THAT

Dinesh.D.M

has successfully completed internship program in **Artificial Intelligence..**
from 20th Mar, 2022 to 20th May, 2022. During the internship, the student
was found to be dedicated, hardworking and diligent.



Academic Head



Director Signature

PERSONIFWY

INTERNSHIP CERTIFICATE

THIS IS TO CERTIFY THAT

Harshitha M Kolar

has successfully completed internship program in **Artificial Intelligence..**
from 20th Mar, 2022 to 20th May, 2022. During the internship, the student
was found to be dedicated, hardworking and diligent.



Academic Head



Director Signature

Cognizant Internship Participation Letter

G GenCInternsSupport(Cognizant)
To: Sonny, Manoj G (Contractor)

☀️ 📧 ⏪ ⏩ ⋮
Fri 7/8/2022 6:00 PM



Dear Manoj G,

Greetings from Cognizant !

We would like to thank you for your participation in the Cognizant Internship Program 2022.

This is to acknowledge your Internship training completion with us between 2/14/2022 and 5/24/2022.

Hope the training has been effective in upskilling your capabilities.

Wishing you Good luck for your future endeavors.

Regards,
Human Resources - Cognizant

CERTIFICATE OF PROJECT COMPLETION



THIS CERTIFICATE IS PROUDLY PRESENTED TO

Kalavara Anil

has successfully undergone Industrial Program on Web Development
from Raise Digital from 10th Jun, 2021 to 10th Aug, 2021 and
successfully completed the projects on

- Advance E-Commerce Website
- E-Commerce Website(Single Page)

Under the guidance of the mentor and company representative

19-Sep-2021

RDI-2109000428

DATE



A handwritten signature in black ink, reading "Megha Singh".

PROJECT HEAD-MEGHA SINGH



Ernst & Young LLP
6th, 12th & 13th floor,
"UB City" Canberra Block,
No.24, Vittal Mallya Road,
Bengaluru-560 001 India.
Phone: +91 80 4027 5000
Fax: +91 80 2210 6000

09 February 2022

Ms. Riddhi Muskan
403, Vandana Homes Apartment Arekere Mico
Layout, Bengaluru, 560076

Dear *Riddhi*,

Sub: Project Training

We are pleased to offer you Project training in **Technology Consulting** so as to facilitate you to acquire requisite degree of proficiency, competency and work knowledge.

Duration	:	14 March 2022 - 30 June 2022
Service Line	:	Technology Consulting
Stipend	:	21,200 per month
Project Location	:	Bengaluru
Project Mentor	:	Rajiv Shah

Your Project Mentor will brief you on your Project when you join.

At the Project Location city, you are expected to make your own accommodation and travel arrangements, to and from your place of work.

Your working hours will be as per those of the client or as per the office as the case may be. You will not be entitled to any benefits and allowances as applicable to the employees of the Company/Firm. However, the period of training may further be extended if deemed necessary at the sole discretion of the Company/Firm. Your current engagement is only in the capacity of a trainee and shall not be construed to be an employment. Moreover, the current training shall not entitle you to claim permanent employment with either **Ernst & Young LLP**, or the client.

Looking forward to having you with us, and hope you have a rewarding and challenging experience with Ernst & Young LLP.

Please sign and return to us the duplicate copy of this letter in token of your acceptance.

Yours faithfully
For **Ernst & Young LLP**,

Anshula Verma
Authorised Signatory

Signed _____

Date: _____

Riddhi Muskan

This certificate is awarded to:

Yashas M Nayak

Has successfully completed Internet of Things and Robotics program in the month of 10 Mar 2022 to 10 May 2022 at Rinex.



Academic Director
Rinex Technology

The AVIATE logo features the word "AVIATE" in a bold, black, sans-serif font. Above the letter "A" is a yellow graphic of a robot head. Below the word "AVIATE" is the tagline "TRANSFORMING LIVES THROUGH ROBOTICS" in a smaller, black, sans-serif font.



15-Feb-2022

Dear **Syed Imaad**

Sub: Offer of Internship / Employment

Subsequent to the interview you had with us, we are pleased to offer you an internship with our Company starting from **14/Mar/2022**

During this period you will be designated as “**Trainee**” and will be paid a gross monthly stipend of Rs. **25000** (Rupees **Twenty Five Thousand Only / -** & this stipend will be subject to statutory and tax deductions as applicable).

On Successful completion of this period, you will be confirmed as a full-time employee and designated as **Associate Devops Engineer - 1.1.**

The annual compensation package after successful confirmation of internship will be as below –
Cost to Company (CTC) is Rs **800000** (Rupees **Eight Lakh Only / -**) per annum

- (i) Fixed Gross Rs. **600000** (Rupees **Six Lakhs Only / -**) per annum
- (ii) Performance bonus of Rs. **50000** (Rupees **Fifty Thousand Only / -**) which will be paid annually after evaluation.
- (iii) One time Joining Bonus of Rs. **50000** (Rupees **Fifty Thousand Only / -**) on confirmation as full-time employee , in the month of conversion.
- (iv) ESOP allotment worth of Rs. **100000** (Rupees **One Lakh Only / -**)

The detailed offer letter with compensation break-up and ESOP allotment will be shared upon your conversion to full-time employee.

Please acknowledge this letter as a token of you having read, understood and accepted the above offer.

We look forward to your joining the Verse team and wish you a long and mutually rewarding association.

Your employment terms and conditions should not be disclosed to any person and should be treated with the strictest confidence.

Should you require any clarification on your employment terms, please contact hrops@verse.in

Yours Sincerely,

For Ver sé Innovation Private Limited

Maya John
Group Head – Human Resource

VerSe Innovation Private Limited - Registered Office : IndiQube Delta, No. 6, 14th Main Road,
HSR Layout, 5th Sector, Bangalore – 560102, Karnataka
Tel: +91 80 4661 5404 E-mail: contact@verse.in CIN : U72200KA2007PTC042493

Syed Imaad

14/03/2022

Bangalore



वैमानिकीय विकास संस्थापन

डी आर डी ओ, रक्षा मंत्रालय, भारत सरकार, बेंगलूरु - 560075, भारत

AERONAUTICAL DEVELOPMENT ESTABLISHMENT

DRDO, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, BENGALURU - 560075, INDIA

HUMAN RESOURCES DIVISION

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms./Mr. JENNIFER KUMAR (EN918EC0043) of Final
Semester/Year, BE/B.Tech./ME/M.Tech/PhD Electronics & Communications Engineering
Student of Dayananda Sagar University, Bengaluru (Batch No. 05B/2/ST-UG/21-22)
has undergone Project-Work/Internship Training in the field of "SHM of Aircraft Structures using
FBG and DFOS Sensors"
from 21-MAR-2022 to 05-MAY-2022 in this Establishment under the guidance of
Ms./Mr./Dr. M.Devendra, Scientist F of STR-Testing Division of ADE.
During the period of Project-Work/Internship Training her/his performance and conduct was very good.

Bengaluru
Date: 05-05-2022


Head HR
For Director
अनिता सारवणन / Anitha Saravanan
वैमानिक 'एफ' / Scientist 'F'
प्रमुख, (एच.आर.) / Head, (HR)
वैमानिकीय विकास संस्थापन
AERONAUTICAL DEVELOPMENT ESTABLISHMENT

Certificate
OF INTERNSHIP

Alpha Tech Academy

This is to certify that

Kaushik S

has successfully completed ***Internship***

on Data Science using Python

from ***02-08-2021*** *to* ***30-09-2021***

Date : 18/10/2021 **Enrollment ID :** ATA21A101452


Director



सत्यमेव जयते

GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
INDIAN SPACE RESEARCH ORGANISATION
ISRO TELEMTRY TRACKING AND COMMAND NETWORK
BANGALORE - 560 058



CERTIFICATE

This is to certify that Sri/Smt/Kum **KUSHAL J** of **DAYANANDA SAGAR UNIVERSITY, BANGALORE** has successfully completed the project work towards partial fulfilment for **B.E. (Electronics and Communication Engineering)** degree. The title of the project is **“SIMULATION OF MAGNETIC FIELD READING OF SATELLITES AND MATCHING WITH ACTUAL SATELLITES MEASUREMENTS”**.

Bkai
29.10.2021

BIJOY KUMAR DAI
(External Guide)
SCI./ENGINEER-SF
SPOA
ISTRAC/ISRO



DATE: 29.10.2021 HRD SL.NO. 04/2021(01)

B Sankar Madaswamy

B SANKAR MADASWAMY
SCI./ENGINEER-SF
MANAGER, HRD
PPEG / MSTDA
ISTRAC/ISRO



12-Jan-2022

Abhiram Venkatarangan
B.Tech (Hons.) Electronics & Communication Engineering
Dayananda Sagar University, Bangalore

Dear Abhiram Venkatarangan,

Further to our Letter of Intent / Offer for the position of Programmer Analyst Trainee / Programmer Analyst aligned to the hiring category and in response to your subsequent confirmation for Internship Program with us, we are pleased to offer you an Internship with us for a period of 3 to 6 months, starting Dec 2021.

During this period, you will be provided with a stipend of INR 12,000 per month equated to the planned duration of the Internship curriculum and will be paid only subject to successful completion of milestones as defined in the curriculum prior to the monthly stipend processing window for a given month based on your performance and attendance.

Actual commencement of Internship dates and duration would be shortly communicated to you and the internship would be based on the business demand aligned to your skill tracks.

Though Cognizant Internship being a pre-requisite skill and capability development program, it does not guarantee employment. However, the successful completion of internship will form a critical part of your employment with Cognizant if an opportunity arises in future.

You will undergo a learning curriculum as per the learning track assigned to you. The learning path will include in-depth sessions, hands on exercise and project work. There will also be series of webinars, quizzes, SME interactions, mentor connects, code challenges, assessments etc. to accelerate your learning. The outcome during Internship would be monitored through formal evaluations.

Prior to joining on the rolls of Cognizant, you must have successfully completed the prescribed Internship program. In the event of unsatisfactory Internship, Cognizant reserves rights at its sole discretion to revoke its employment offer.

Please also note that:

- The Internship timings would be for 9 hours per day from Monday through Friday aligned to the working timings followed in Cognizant
- Interns are covered under Cognizant's calendar holidays of the respective location of internship and you would need to adhere with minimum attendance requirements. Prior approvals are must towards any unavoidable leave or break requests during the program.
- There would be zero tolerance to plagiarisms and misconduct during the internship. Any such incident reported will lead to immediate cancellation of internship without any notice.
- You would be required to ensure timely completion and submission of assignments, project work and preparation required prior to the sessions.
- You may be required, to travel to other locations within India if there is a business need as per your internship program
- Cognizant reserves rights regarding IT infra as applicable and access to information and material of Cognizant during the internship period and may modify or amend the Cognizant GenC program terms and conditions from time to time
- Stipend payment will be done for the prescribed Internship Curriculum period only and no additional payment will be done for any delay in completion.
- Attendance and successful completion of Milestone(s) are the eligible factors for processing stipend payment and tenure spent will not guarantee your monthly stipend payment.

At the time of your reporting for the internship, you will be required to sign a Non - Disclosure Agreement with the company. During the course of your Internship and after completion of the same, you are required to maintain strictest confidentiality with respect to company proprietary or products that you access or come into contact with, during your project as an Intern, at all times as per our Policy. Use of company proprietary information or products shall not be made without prior permission from the concerned authority. Any breach of information security will be dealt as per Company Policy.

You will also be required to submit the following documents at the time of reporting;

- Photocopy of your Passport & Visa
- Photocopy of your Certificates / Mark Sheets in support of your Educational Qualification(s)
- 2 Passport-size photographs
- Pan Card
- Aadhar Card
- Personal individual bank account from a nationalized bank for processing stipend

Please do not hesitate to call us for any information you may need.

We wish you good luck.

Yours sincerely,
For Cognizant Technology Solutions India Pvt. Ltd.,



Maya Sreekumar
Vice President - Human Resource

I accept the terms and conditions of the internship program as mentioned above.

Signature: *Abhiram*

Date: 11/03/2022



BNN18E0017



Internship Offer Letter

21st January 2022

B H Bhargav
Bangalore

Dear Mr. Sathyanarayana R ,

Further to our discussions and as part of your ongoing academic curriculum, CareerNet Technologies Pvt. Ltd. hereby referred to as the 'Company', is pleased to offer you an opportunity for internship with our client **Aptean India Private Limited** for six (6) months effective **10th March 2022**.

Your internship will be at the client's offices at Bangalore. During your internship, you will be trained on certain specialised projects relating to our client, Aptean India Private Limited. However, all the legal obligations relating to this internship arrangement shall be the responsibility of the Company.

The break-up of your salary is given in Annexure1.

The term of the internship period may be reduced or extended or otherwise modified at the sole discretion of the Company, without assigning any reason whatsoever. The Company also reserves the right to discontinue the internship for any reason whatsoever.

Upon successful completion of your internship, you shall be entitled to a certificate of internship from the Company. Additionally, we will also recommend your name to Aptean for their evaluation for a full-time employment, subject to the following conditions:

1. Successfully meeting the training criteria, goals and indicators during your internship period.
2. Submission of all the relevant documents requested by the Company.
3. Successful completion of your Graduate / Master's degree, as appropriate.
4. Successfully clearing any and all background checks that may be conducted.

You agree and understand that your relationship with the Company or Aptean shall not be construed as an employer - employee relationship. You understand and acknowledge that nothing contained in this letter shall be construed as a confirmation or guarantee of employment with the Company or Aptean.

You understand that this internship is being extended to you under strict confidence. By signing below, you agree not to disclose the details of the internship or the terms of this letter, except as may be required by applicable law.

During the term of your internship, you may have access to confidential and proprietary information of the Company, Aptean or their business. You understand and acknowledge that it is essential to the conduct of Company and Aptean's business and to the protection of



its clients' interests that all information and knowledge acquired by you during your internship be kept strictly confidential.

You hereby agree and undertake not to misuse or wrongfully disclose or disseminate this information to any person either during or after the term of your internship.

Either the company or you may at any time terminate this agreement by giving in writing to the other party 30 Days notice.

The company may immediately and without notice, terminate your services, in case of any substantial or continued unwillingness or inability to perform duties assigned to you or unsatisfactory job performance at the client premises.

On termination of your employment with the company irrespective of the circumstances, you are bound to return to the company or our Client where you have been deputed:

1. Any material items belonging to the Company in your possession including but not limited to Intellectual property (documentation, software, email correspondence) and any other information required for the continued execution of the duties of your role (login credentials, business contact information).
2. Any physical company documents that you may have in your possession.
3. Any other company assets within your control.

You shall be entitled to leaves and holidays accordingly to Company Policy.

You recognize and agree that the Company shall be entitled to recover from you any losses suffered by the Company or Apteon on account of any damage, theft or misuse of the Company's and/or Apteon's physical Assets or intellectual properties, whilst in your custody or while entrusted to you during the term of your internship.

This internship offer shall automatically be null and void if the Company does not receive your acceptance as below and returning a copy of this letter to us within 3 working days from the date of the letter. Please arrange to send a copy of your student ID card and no objection letter from your college / university.

If you have any specific questions about this internship offer, please contact the undersigned.

We wishing you a happy learning experience.

Sincerely,

For **CareerNet Technologies Pvt. Ltd.**

Kavitha S
Vice President-HR



INTERNSHIP AGREEMENT

This Internship Agreement (the "Agreement") is made at Chennai on **08th April, 2022** by and between **Prodapt Solutions Private Limited** with its registered address at Prince Info City II, 4th floor, No. 283/4, Rajiv Gandhi Salai (OMR), Kandanchavadi, Chennai – 96, India ("**Prodapt**" or the "**Company**") and **BOLLU SAI VENKATA DHANUSH** with its address at **VVR LUXURY PG FOR GENTS , INDUSTRIAL LAYOUT,KUDLU GATE,chikka begur,560068 , BANGALORE.**

The Intern and the Company are collectively hereinafter in this Agreement referred to as the "Parties" and individually as a "Party".

WHEREAS the Company is willing to provide to the Intern certain on-job training (hereinafter referred as "Internship").

WHEREAS the Intern has agreed for the Internship to gain valuable insight and experience on the Company's business.

NOW THEREFORE, in consideration of the foregoing and the mutual covenants contained herein and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereby agree as follows:

- 1) **Term of Agreement.** The Internship shall commence on **18th April, 2022** ("**Commencement Date**") and will continue for a period of 3 months i.e. till **18th July, 2022** ("**Completion Date**") unless a written extension is provided. The Company may at any time in its sole discretion, terminate the internship without notice or cause to the Intern. Provided However, the Intern shall be required to provide four (4) weeks written notice to the Company in the event of termination of this Agreement.
- 2) **Compensation/Stipend.** Your compensation/stipend will be **Rs. 12,000** per month payable in arrears on or before the **7th** day of the subsequent month.
- 3) **Internship.** The Intern undertakes to use his/her best efforts and abilities to promote the interests of the Company and shall participate in the Internship during which period the Company shall bear the Internship related expenses. The Intern shall observe the policies, standards and regulations of the Company. This Internship is educational in nature and there is no guarantee or expectation that the internship will result in employment with the Company.
- 4) **Intern Representation.** The Intern represents that he/she is fully authorized to enter into and to perform all obligations under this Agreement without conflicting with any other commitment, agreement or understanding. The Intern represents that the particulars furnished by the Intern regarding the Intern's qualifications and eligibility for this Agreement are correct.



- 5) **Confidentiality.** During the term of Internship with the Company and any time thereafter, the Intern will not use, disclose, reveal or report any confidential information of the Company's past or current clients, or of other parties which have disclosed confidential or proprietary information to the Company. As used herein, "confidential information" means information not generally known that is proprietary to the Company, its clients or other parties, including but not limited to information about any clients, prospective clients, sales proposals, employees, processes, operations, products, services, organization, research, development, accounting, marketing, applications, selling, servicing, finance, business systems, computer systems, software systems and techniques. All information disclosed to Intern, or to which Intern obtains access, whether originated by Intern or by others, which Intern has reasonable basis to believe to be confidential information, or which is treated by the Company or its clients or other parties as being confidential information, shall be presumed to be confidential information. All Confidential Information and instructions that pass through to the Intern or come to his/her knowledge in the course of his/her Internship, shall be treated as absolutely confidential and the proprietary property of the Company. The Intern will cooperate with the Company in the execution of any personal confidentiality agreement, which may be required by the Company or its Client or other third party.
- 6) **Intellectual Proprietary Rights.** The Company and its licensors retain for themselves exclusive ownership of all right, title and interest in and to all intellectual and other proprietary rights embodied in or related to this Agreement.
- 7) **Governing Law.** This Agreement shall be governed and confirmed in accordance with the laws of India and subject to the exclusive jurisdiction of Chennai, India without regard to its conflict or choice of law provisions.
- 8) **Non-Waiver.** The failure of either the Company or Intern to exercise in any instance any right under this Agreement shall not constitute a waiver of the same or any other right, power, or privilege in any other instance. Any waiver must be in writing and signed by the party against whom a waiver is alleged.
- 9) **Severability.** If any term of this Agreement is held invalid or unenforceable, the remaining provisions of this Agreement will remain in full force and effect to the fullest extent permitted by law.
- 10) **Counterparts.** This Agreement may be executed in counterparts, each of which shall be deemed an original and each of which shall together constitute one and the same agreement. This Agreement will not become enforceable until executed by the Company.



11) **Entire Agreement.** This Agreement expresses, embodies, and supersedes all previous understandings and agreements, whether written or oral, between the Parties with respect to the subject matter hereof and fully and finally sets forth the entire agreement between the Parties.

IN WITNESS WHEREOF, the Intern and Company have executed this Internship Agreement as of the Effective Date:

For Intern:

Name:

Bollu Sai Venkata Dhanush

Signature:

Bollu Sai Venkata Dhanush

7B3233CCF10D4DE...

Date: 4/11/2022

For the Company:

Prodapt Solutions Pvt. Ltd.

DocuSigned by:

Pradeep Jumani

0D478315A23B40F...

Signature:

Pradeep Jumani, AVP HR

Date: 08-04-2022



INTERNSHIP AGREEMENT

This Internship Agreement (the "Agreement") is made at Chennai on **08th April, 2022** by and between **Prodapt Solutions Private Limited** with its registered address at Prince Info City II, 4th floor, No. 283/4, Rajiv Gandhi Salai (OMR), Kandanchavadi, Chennai – 96, India ("Prodapt" or the "Company") and **Gomathi Shankari Pitchaiah** with its address at **No. 4, Sri Krishna Residency, Yadava Farms, Next to RBI Layout, JP Nagar 7th Phase, Bangalore-560062**.

The Intern and the Company are collectively hereinafter in this Agreement referred to as the "Parties" and individually as a "Party".

WHEREAS the Company is willing to provide to the Intern certain on-job training (hereinafter referred as "Internship").

WHEREAS the Intern has agreed for the Internship to gain valuable insight and experience on the Company's business.

NOW THEREFORE, in consideration of the foregoing and the mutual covenants contained herein and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereby agree as follows:

- 1) **Term of Agreement.** The Internship shall commence on **18th April, 2022** ("**Commencement Date**") and will continue for a period of 3 months i.e. till **18th July, 2022** ("**Completion Date**") unless a written extension is provided. The Company may at any time in its sole discretion, terminate the internship without notice or cause to the Intern. Provided However, the Intern shall be required to provide four (4) weeks written notice to the Company in the event of termination of this Agreement.
- 2) **Compensation/Stipend.** Your compensation/stipend will be **Rs. 12,000** per month payable in arrears on or before the 7th day of the subsequent month.
- 3) **Internship.** The Intern undertakes to use his/her best efforts and abilities to promote the interests of the Company and shall participate in the Internship during which period the Company shall bear the Internship related expenses. The Intern shall observe the policies, standards and regulations of the Company. This Internship is educational in nature and there is no guarantee or expectation that the internship will result in employment with the Company.
- 4) **Intern Representation.** The Intern represents that he/she is fully authorized to enter into and to perform all obligations under this Agreement without conflicting with any other commitment, agreement or understanding. The Intern represents that the particulars furnished by the Intern regarding the Intern's qualifications and eligibility for this Agreement are correct.

Prodapt Solutions Private Limited
Prince Infocity II, 4th Floor, No. 283/4, Rajiv Gandhi
Salai (OMR), Kandanchavadi, Chennai - 600096 INDIA.
CIN: U30007TN1999PTC041798

T: +91 44 4903 3000 | F: +91 44 4903 3010
www.prodapt.com | info@prodapt.com



- 5) **Confidentiality.** During the term of Internship with the Company and any time thereafter, the Intern will not use, disclose, reveal or report any confidential information of the Company's past or current clients, or of other parties which have disclosed confidential or proprietary information to the Company. As used herein, "confidential information" means information not generally known that is proprietary to the Company, its clients or other parties, including but not limited to information about any clients, prospective clients, sales proposals, employees, processes, operations, products, services, organization, research, development, accounting, marketing, applications, selling, servicing, finance, business systems, computer systems, software systems and techniques. All information disclosed to Intern, or to which Intern obtains access, whether originated by Intern or by others, which Intern has reasonable basis to believe to be confidential information, or which is treated by the Company or its clients or other parties as being confidential information, shall be presumed to be confidential information. All Confidential information and instructions that pass through to the Intern or come to his/her knowledge in the course of his/her Internship, shall be treated as absolutely confidential and the proprietary property of the Company. The Intern will cooperate with the Company in the execution of any personal confidentiality agreement, which may be required by the Company or its Client or other third party.
- 6) **Intellectual Proprietary Rights.** The Company and its licensors retain for themselves exclusive ownership of all right, title and interest in and to all intellectual and other proprietary rights embodied in or related to this Agreement.
- 7) **Governing Law.** This Agreement shall be governed and confirmed in accordance with the laws of India and subject to the exclusive jurisdiction of Chennai, India without regard to its conflict or choice of law provisions.
- 8) **Non-Waiver.** The failure of either the Company or Intern to exercise in any instance any right under this Agreement shall not constitute a waiver of the same or any other right, power, or privilege in any other instance. Any waiver must be in writing and signed by the party against whom a waiver is alleged.
- 9) **Severability.** If any term of this Agreement is held invalid or unenforceable, the remaining provisions of this Agreement will remain in full force and effect to the fullest extent permitted by law.
- 10) **Counterparts.** This Agreement may be executed in counterparts, each of which shall be deemed an original and each of which shall together constitute one and the same agreement. This Agreement will not become enforceable until executed by the Company.



11) **Entire Agreement.** This Agreement expresses, embodies, and supersedes all previous understandings and agreements, whether written or oral, between the Parties with respect to the subject matter hereof and fully and finally sets forth the entire agreement between the Parties.

IN WITNESS WHEREOF, the Intern and Company have executed this Internship Agreement as of the Effective Date:

For Intern:

Name:

Gomathi Shankari P

Signature:

Gomathi P.

Date: 11-04-2022

For the Company:

Prodapt Solutions Pvt. Ltd.

DocuSigned by:

Pradeep Jumanl

00478318A23D40F...

Signature:

Pradeep Jumanl, AVP HR

Date: 08-04-2022



Internship Offer letter

March 2, 2022

Dear Khundrakpam Neelachandra Singh,

Juspay Technologies Private Limited ("Juspay.in"/ "The Company") is pleased to offer you an internship opportunity. You are expected to report on **14-Mar-2022** and your work location will be Bangalore. This offer is subject to the Standard Terms and Conditions of internship at Juspay.in.

Standard Terms and Conditions:

1. During the period of your internship with the Company, you will be designated as **Technical Product Analyst -Intern**
2. Along with academic credits, you will also be paid a stipend of **INR 30,000 (Thirty Thousand Only)** per month for your internship. No additional benefits will be borne by the Company during the course of your internship program. Tax Deducted at Source (TDS) will be deducted as per government guidelines for which TDS certificates will be issued on quarterly basis.
3. You will be interning with the Company for a minimum period of **Three months starting from 14-Mar-2022**. Your work schedule will be approximately 40 (forty) hours per week which may be extended according to the discretion of your reporting Manager. You may be required to work as may be required for completion of assigned task/ duties. You are required to work competently to meet the Company's standard conduct of business. Your duties and assignments for this position will be those described to you in your orientation with Vimal Kumar.
4. As an intern of the Company, you will be expected to abide by the Company's rules and standards which will be communicated to you at the time of joining and subsequently, as and when modified. You will also be governed by the statutory laws enacted by the Central or State Government or local authorities as may be applicable to you from time to time.
5. You may not discontinue the internship at any time for any reason other than with explicit written consent of the Company. Juspay.in, may request you to discontinue the internship if you do not comply with the code of conduct stipulated by the Company from time to time, for violation of any of the representations made by you and/or any other breach of terms of the internship program which may be provided by the Company from time to time. The Company may at its sole discretion choose to offer you with employment basis your performance during the internship.
6. As an intern, you will not be a company employee. Therefore, you will not receive a salary, wages, or other compensation other than the stipend mentioned explicitly. In addition, you will not be eligible for any of the employee benefits that company employees are entitled to, including, but not limited to, health insurance, vacation or sick leave, paid holidays, or participation in Juspay's employee welfare plan.

7. During your internship you may come across confidential business information. By accepting this internship offer, you acknowledge that you adhere to our confidentially and proprietary right policy. In addition, you will be required to sign and comply with Confidential Information and Invention Assignment Agreement with the Company.
8. The Confidential Information and Invention Assignment Agreement requires, among other provisions the assignment of IP rights to the Company in any invention made during your internship at the Company and provision for non-disclosure or misappropriation of the Company's proprietary information.
9. Upon conclusion of your internship with the Company you are required to return all company-owned property, equipment, and documents, including electronic mail and/or other information.
10. And adhere to such terms and conditions appended to this document from time to time.

We look forward to working with you at Juspay.

Yours Sincerely,

For and on behalf of Juspay Technologies Private Limited

DocuSigned by:

5AAE054D3BE14DB...

Shipra Pandit

HR Director

Acceptance of Internship Offer

I understand and accept the Internship Offer along with terms and conditions, set forth herein by signing at the end of this document and here under.

Candidate Signature


Name Khundrakam Neelachandva Singh

Place and Date Bangalore / 04/03/2022

Address VVR-LUXURY PG, KUDLU GATE, OPPOSITE TO
Dayananda Sagar University,


**Hewlett Packard
Enterprise**

23/02/2022

Lara J

No. 87 Arehalli, Lingapura, Belur taluk, Hassan District- 573101, Hassan

Dear Lara J,

We are pleased to inform you that you have been selected for training with Hewlett Packard Enterprise GlobalSoft Pvt. Ltd. ("HPE" or the "Company") from 08/03/2022 to 02/09/2022 for a period of Six Months under the guidance and supervision of Sudha Raghavan Panchikal. Your location would be Pune, Maharashtra, India.

1. During the tenure of the project, you will be paid a **stipend of Rs.18,000 per month**. The payment of stipend shall depend on your unconditional presence at any location that may be stipulated herein above.
2. It is clearly understood that you are not in any manner providing any service to HPE and that the payment of stipend shall not in any manner be construed or deemed to be consideration for services rendered by you.
3. You will not be entitled to any statutory benefits of otherwise to which a regular employee of the company is entitled.
4. You will be entitled for 12 days leave per annum, weekly holidays and such other holidays declared by the Company.
5. During your training with the company you shall be bound by the company's rules and regulation applicable from time to time and any violation to this will result in immediate termination of your training.
6. During your training with the company you may come across certain confidential information related to the business of the company, any such information you shall not use or disclose to others or any third party in any circumstances.
7. You shall not publish your research / project report and about the company in any form in mass media and the same is to be treated strictly for academic purpose only.
8. You shall maintain utmost confidentiality on any information that you acquire during the project and sign the enclosed confidentiality agreement on or before the start of training period.
9. You shall not, during the period of your project study at HPE, copy, duplicate, decompile or translate any intellectual property of HPE without appropriate authorization. You shall not take out any intellectual property belonging to HPE, outside the work place or HPE's premises, without appropriate authorization from the supervisor.
10. You shall be obligated to compensate HPE appropriately, in the event you cause any loss or damage to any property that is owned or leased by HPE, during the training period.
11. It is expressly understood and agreed by and between us that the company shall in no way be liable /responsible for any injuries/ impairment in health arising during your training period.
12. This offer of appointment is conditional upon successful background checks (which may include

FOR Company

Sallish A J Menezes
Senior Director – Human Resources

FOR Employee

Name: Lara JSignature: Lara JDate: 07 10 31 22



12-Jan-2022

Manoj G Sonny
B.Tech Electronics & Communication Engineering
Dayananda Sagar University, Bangalore

Dear Manoj G Sonny,

Further to our Letter of Intent / Offer for the position of Programmer Analyst Trainee / Programmer Analyst aligned to the hiring category and in response to your subsequent confirmation for Internship Program with us, we are pleased to offer you an Internship with us for a period of 3 to 6 months, starting Dec 2021.

During this period, you will be provided with a stipend of INR 12,000 per month equated to the planned duration of the Internship curriculum and will be paid only subject to successful completion of milestones as defined in the curriculum prior to the monthly stipend processing window for a given month based on your performance and attendance.

Actual commencement of Internship dates and duration would be shortly communicated to you and the internship would be based on the business demand aligned to your skill tracks.

Though Cognizant Internship being a pre-requisite skill and capability development program, it does not guarantee employment. However, the successful completion of internship will form a critical part of your employment with Cognizant if an opportunity arises in future.

You will undergo a learning curriculum as per the learning track assigned to you. The learning path will include in-depth sessions, hands on exercise and project work. There will also be series of webinars, quizzes, SME interactions, mentor connects, code challenges, assessments etc. to accelerate your learning. The outcome during Internship would be monitored through formal evaluations.

Prior to joining on the rolls of Cognizant, you must have successfully completed the prescribed Internship program. In the event of unsatisfactory Internship, Cognizant reserves rights at its sole discretion to revoke its employment offer.

Please also note that:

- The Internship timings would be for 9 hours per day from Monday through Friday aligned to the working timings followed in Cognizant
- Interns are covered under Cognizant's calendar holidays of the respective location of internship and you would need to adhere with minimum attendance requirements. Prior approvals are must towards any unavoidable leave or break requests during the program.
- There would be zero tolerance to plagiarisms and misconduct during the internship. Any such incident reported will lead to immediate cancellation of internship without any notice.
- You would be required to ensure timely completion and submission of assignments, project work and preparation required prior to the sessions.
- You may be required, to travel to other locations within India if there is a business need as per your internship program
- Cognizant reserves rights regarding IT infra as applicable and access to information and material of Cognizant during the internship period and may modify or amend the Cognizant GenC program terms and conditions from time to time
- Stipend payment will be done for the prescribed Internship Curriculum period only and no additional payment will be done for any delay in completion.
- Attendance and successful completion of Milestone(s) are the eligible factors for processing stipend payment and tenure spent will not guarantee your monthly stipend payment.

At the time of your reporting for the internship, you will be required to sign a Non - Disclosure Agreement with the company. During the course of your Internship and after completion of the same, you are required to maintain strictest confidentiality with respect to company proprietary or products that you access or come into contact with, during your project as an Intern, at all times as per our Policy. Use of company proprietary information or products shall not be made without prior permission from the concerned authority. Any breach of information security will be dealt as per Company Policy.

You will also be required to submit the following documents at the time of reporting;

- Photocopy of your Passport & Visa
- Photocopy of your Certificates / Mark Sheets in support of your Educational Qualification(s)
- 2 Passport-size photographs
- Pan Card
- Aadhar Card
- Personal individual bank account from a nationalized bank for processing stipend

Please do not hesitate to call us for any information you may need.

We wish you good luck.

Yours sincerely,


For **Cognizant Technology Solutions India Pvt. Ltd.,**



Maya Sreekumar

Vice President - Human Resource

I accept the terms and conditions of the internship program as mentioned above.

Signature: 

Date: 13/01/2022

12, 3:52 PM

EOffer

Offer Letter Body

Page 1 of 3


Persistent

Reference: Persistent/Academic Intern/1388337/0.2

**Internship Offer Letter
Confidential**

Feb 01, 2022

Mr Md Tanveer

Mahateja Nagar 2nd Main 3rd cross, angalore road, Guggarahatti, Bellary
Bellary 583101

Dear Md,

Subject: **Your engagement as an Academic Intern with Persistent**

With reference to your application for industrial training with us, and the subsequent selection process, we are pleased to inform you that you have been selected as an **Academic Intern** at grade 0.2 with Persistent Systems (Company). This offer is made to you as part of your Academic Curriculum.

The duration and start date of the internship will be communicated to you in due course of time separately.

During the internship period you will be paid a consolidated monthly stipend of Rs. 10,000 per month. You will also be eligible for benefits such as free lunch, snacks, tea and coffee during your internship period.

All terms and conditions in this document, read with any other document specifically referred herein and incorporated hereto by such reference, collectively shall constitute the entire understanding between the Academic Intern and the Company.

Company does not assure you or commit (a) any extension of this internship beyond the period stipulated under this letter and/or offer you employment with Company and/or absorb you as an employee of the Company in future. Unless otherwise specifically agreed in writing by Company, there shall be no employee-employer relationship between you and Company.

1. Working days

Normal working days for Company are Monday through Friday. Company observes Sunday as a compulsory weekly off and Saturday as the other weekly off day. The normal working hours are forty five hours per week.

2. Holidays and Leaves

You will not be eligible for any leave or compensatory off during internship period.



05-Jan-2022

Nikhita B Jalihal
B.Tech Electronics & Communication Engineering
Dayananda Sagar College of Engineering, Bangalore

Dear Nikhita B Jalihal,

Further to our Letter of Intent / Offer for the position of Programmer Analyst Trainee / Programmer Analyst aligned to the hiring category and in response to your subsequent confirmation for Internship Program with us, we are pleased to offer you an Internship with us for a period of 3 to 6 months, starting Dec 2021.

During this period, you will be provided with a stipend of INR 12,000 per month equated to the planned duration of the Internship curriculum and will be paid only subject to successful completion of milestones as defined in the curriculum prior to the monthly stipend processing window for a given month based on your performance and attendance.

Actual commencement of Internship dates and duration would be shortly communicated to you and the internship would be based on the business demand aligned to your skill tracks.

Though Cognizant Internship being a pre-requisite skill and capability development program, it does not guarantee employment. However, the successful completion of internship will form a critical part of your employment with Cognizant if an opportunity arises in future.

You will undergo a learning curriculum as per the learning track assigned to you. The learning path will include in-depth sessions, hands on exercise and project work. There will also be series of webinars, quizzes, SME interactions, mentor connects, code challenges, assessments etc. to accelerate your learning. The outcome during Internship would be monitored through formal evaluations.

Prior to joining on the rolls of Cognizant, you must have successfully completed the prescribed Internship program. In the event of unsatisfactory Internship, Cognizant reserves rights at its sole discretion to revoke its employment offer.

Please also note that:

- The Internship timings would be for 9 hours per day from Monday through Friday aligned to the working timings followed in Cognizant
- Interns are covered under Cognizant's calendar holidays of the respective location of internship and you would need to adhere with minimum attendance requirements. Prior approvals are must towards any unavoidable leave or break requests during the program.
- There would be zero tolerance to plagiarisms and misconduct during the internship. Any such incident reported will lead to immediate cancellation of internship without any notice.
- You would be required to ensure timely completion and submission of assignments, project work and preparation required prior to the sessions.
- You may be required, to travel to other locations within India if there is a business need as per your internship program
- Cognizant reserves rights regarding IT infra as applicable and access to information and material of Cognizant during the internship period and may modify or amend the Cognizant GenC program terms and conditions from time to time
- Stipend payment will be done for the prescribed Internship Curriculum period only and no additional payment will be done for any delay in completion.
- Attendance and successful completion of Milestone(s) are the eligible factors for processing stipend payment and tenure spent will not guarantee your monthly stipend payment.

Cognizant

At the time of your reporting for the internship, you will be required to sign a Non - Disclosure Agreement with the company. During the course of your Internship and after completion of the same, you are required to maintain strictest confidentiality with respect to company proprietary or products that you access or come into contact with, during your project as an Intern, at all times as per our Policy. Use of company proprietary information or products shall not be made without prior permission from the concerned authority. Any breach of information security will be dealt as per Company Policy.

You will also be required to submit the following documents at the time of reporting;

- Photocopy of your Passport & Visa
- Photocopy of your Certificates / Mark Sheets in support of your Educational Qualification(s)
- 2 Passport-size photographs
- Pan Card
- Aadhar Card
- Personal individual bank account from a nationalized bank for processing stipend

Please do not hesitate to call us for any information you may need.

We wish you good luck.

Yours sincerely,
For **Cognizant Technology Solutions India Pvt. Ltd.**,



Maya Sreekumar
Vice President - Human Resource

I accept the terms and conditions of the internship program as mentioned above.

Signature: 

Date: 13/01/2022



INTERNSHIP AGREEMENT

This Internship Agreement (the "Agreement") is made at Chennai on 8th April, 2022 by and between **Prodapt Solutions Private Limited** with its registered address at Prince Info City II, 4th floor, No. 283/4, Rajiv Gandhi Salai (OMR), Kandanchavadi, Chennai – 96, India ("Prodapt" or the "Company") and **Nisarga MR** with its address at #26, Rajendraprasad building, satyapg opposite, vidyanagar 5th cross, bommasandra, bangalore-560099..

The Intern and the Company are collectively hereinafter in this Agreement referred to as the "Parties" and individually as a "Party".

WHEREAS the Company is willing to provide to the Intern certain on-job training (hereinafter referred as "Internship").

WHEREAS the Intern has agreed for the Internship to gain valuable insight and experience on the Company's business.

NOW THEREFORE, in consideration of the foregoing and the mutual covenants contained herein and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereby agree as follows:

- 1) **Term of Agreement.** The Internship shall commence on 18th April, 2022 ("Commencement Date") and will continue for a period of 3 months i.e. till 18th July, 2022 ("Completion Date") unless a written extension is provided. The Company may at any time in its sole discretion, terminate the internship without notice or cause to the Intern. Provided However, the Intern shall be required to provide four (4) weeks written notice to the Company in the event of termination of this Agreement.
- 2) **Compensation/Stipend.** Your compensation/stipend will be **Rs. 12,000** per month payable in arrears on or before the 7th day of the subsequent month.
- 3) **Internship.** The Intern undertakes to use his/her best efforts and abilities to promote the interests of the Company and shall participate in the Internship during which period the Company shall bear the Internship related expenses. The Intern shall observe the policies, standards and regulations of the Company. This Internship is educational in nature and there is no guarantee or expectation that the internship will result in employment with the Company.
- 4) **Intern Representation.** The Intern represents that he/she is fully authorized to enter into and to perform all obligations under this Agreement without conflicting with any other commitment, agreement or understanding. The Intern represents that the particulars furnished by the Intern regarding the Intern's qualifications and eligibility for this Agreement are correct.

Prodapt Solutions Private Limited
Prince Infocity II, 4th Floor, No. 283/4, Rajiv Gandhi
Salai (OMR), Kandanchavadi, Chennai - 600096 INDIA.
CIN: U30007TN1999PTC041798

T: +91 44 4903 3000 | F: +91 44 4903 3010
www.prodapt.com | info@prodapt.com



- 5) **Confidentiality.** During the term of Internship with the Company and any time thereafter, the Intern will not use, disclose, reveal or report any confidential information of the Company's past or current clients, or of other parties which have disclosed confidential or proprietary information to the Company. As used herein, "confidential information" means information not generally known that is proprietary to the Company, its clients or other parties, including but not limited to information about any clients, prospective clients, sales proposals, employees, processes, operations, products, services, organization, research, development, accounting, marketing, applications, selling, servicing, finance, business systems, computer systems, software systems and techniques. All information disclosed to Intern, or to which Intern obtains access, whether originated by Intern or by others, which Intern has reasonable basis to believe to be confidential information, or which is treated by the Company or its clients or other parties as being confidential information, shall be presumed to be confidential information. All Confidential information and instructions that pass through to the Intern or come to his/her knowledge in the course of his/her Internship, shall be treated as absolutely confidential and the proprietary property of the Company. The Intern will cooperate with the Company in the execution of any personal confidentiality agreement, which may be required by the Company or its Client or other third party.
- 6) **Intellectual Proprietary Rights.** The Company and its licensors retain for themselves exclusive ownership of all right, title and interest in and to all intellectual and other proprietary rights embodied in or related to this Agreement.
- 7) **Governing Law.** This Agreement shall be governed and confirmed in accordance with the laws of India and subject to the exclusive jurisdiction of Chennai, India without regard to its conflict or choice of law provisions.
- 8) **Non-Waiver.** The failure of either the Company or Intern to exercise in any instance any right under this Agreement shall not constitute a waiver of the same or any other right, power, or privilege in any other instance. Any waiver must be in writing and signed by the party against whom a waiver is alleged.
- 9) **Severability.** If any term of this Agreement is held invalid or unenforceable, the remaining provisions of this Agreement will remain in full force and effect to the fullest extent permitted by law.
- 10) **Counterparts.** This Agreement may be executed in counterparts, each of which shall be deemed an original and each of which shall together constitute one and the same agreement. This Agreement will not become enforceable until executed by the Company.



11) **Entire Agreement.** This Agreement expresses, embodies, and supersedes all previous understandings and agreements, whether written or oral, between the Parties with respect to the subject matter hereof and fully and finally sets forth the entire agreement between the Parties.

IN WITNESS WHEREOF, the Intern and Company have executed this Internship Agreement as of the Effective Date:

For Intern:

Name:

Nisarga MR

Signature:

Nisarga MR

Date: 04/12/2022

For the Company:

Prodapt Solutions Pvt. Ltd.

DocuSigned by:

Pradeep Jumani

Signature: 00478315A23B40F...

Pradeep Jumani, AVP HR

Date: 8-04-2022



December 27, 2021

P Sai Sujith

Sri Thirumala PG,
#75 OLD Mangaman Palya Road,
Garvepalya, Bangalore, 560068

Dear P Sai ,

Strictly Private & Confidential

Sub: Internship – NagraVision India Pvt. Ltd.

We are pleased to offer you a position as an **Intern - Engineering at Level 8** with **NagraVision India Pvt. Ltd.**

We would like you to join us on or before **April 1, 2022**. Kindly sign the duplicate-copy of your letter of internship and have it returned to us at the earliest.

Please note that the offer of internship is subject to satisfactory completion of your reference check.

You can send all your communication and any clarification with regards to appointment to the undersigned at the mentioned address **NagraVision India Pvt Ltd.**, at No.301 & 302, 3rd Floor, Campus C, RMZ Centennial, EPIP Industrial Area, ITPL Road, Mahadevpura Post, Bangalore – 560048.

We look forward to a mutually rewarding association with you at **NagraVision India Pvt Ltd.**

Sincerely,

For **NAGRAVISION INDIA PVT LTD.**,

Pradeep Bangalore
Director – Human Resources

NAGRAVISION INDIA PRIVATE LIMITED

No.301 & 302, 3rd Floor, Campus C, RMZ Centennial, EPIP Industrial Area, ITPL Road, Mahadevpura Post, Bangalore – 60048
Tel: +91 80 4909 0400 Fax: +91 80 4909 0499 www.nagra.com CIN: U72200KA2007PTC0433011

SECPod

Expose the Unknown

SecPod Technologies Pvt. Ltd.
#1354, "CONCORD" 80ft, Road,
9th Cross, 33rd Main, 1st Phase JP Nagar,
Bangalore – 560078
Ph: 91-80-41214020
Email: info@secpod.com
Web: www.secpod.com

Date : 11.11.2021

To,
Mr. Pruthvi U B,
#63, Market Road,
Sagar (Tq), Shivamogga
(Dist) - 577401

Dear Mr. Pruthvi, U B,

Subject: offer of Internship
Greeting from SecPod

We are pleased to extend the offer of internship as per below mentioned details and terms.

- | | |
|--------------------------|---------------------------|
| 1. Position Offered: | Content Writer – Intern. |
| 2. Location: | Bangalore |
| 3. Date of Commencement: | 3 rd Jan 2022 |
| 4. Date of Termination: | 3 rd July 2022 |
| 5. Remuneration: | Rs. 25,000 per month |

We take this opportunity to welcome you to SecPod and we are confident that you will have a fruitful Learning time with us.

Your performance during the internship period will be monitored closely by the team Leader, based on your performance and further recommendation by the team leader you could considered for recruitment as permanent employment with us.

If you need any clarifications about this Letter of Appointment, please let us know. Please return the duplicate copy of this letter and the enclosures duly signed as acceptance of this offer.

Yours Truly,
SecPod Technologies Pvt. Ltd.



Authorized Signatory

Acceptance:

Place:

Date:

K KOCH.

KOCH BUSINESS SOLUTIONS INDIA PRIVATE LIMITED

Date: 9 November 2021

INTERNSHIP CONFIRMATION LETTER

Dear Sal Lakshmi Lasya V,
Dayananda Sagar University, Bangalore

Congratulations on your selection ...!

We are delighted to offer you an Internship opportunity at our organization. Your internship will start from Monday, January 10, 2022 and end on Monday, July 11, 2022.

As per company's internship policy, you will be paid a stipend of INR 40,000 (Rupees Forty Thousand Only) per month paid on pro-rata basis of actual attendance record of the month. You would be eligible to use our subsidized canteen facility during your internship by paying the applicable charges. You would not be entitled for any other benefit as part of your internship assignment.

Please be informed that this letter does not constitute a contract of employment or guarantee you any employment with Koch Business Solutions India Pvt Ltd. Based on your performance during the internship period, the company may offer you a permanent employment at the end of the internship period.

During your internship with our organization, you shall follow all the rules and regulations of the organization. Your standard working hours will be 12:00 – 9:00 pm on all working days. Failure to adhere to the rules and regulations may result in termination of your internship assignment.


Please review, sign, and return the letter to confirm acceptance, no later than close of business on November 12, 2021.

Sincerely,
For Koch Business Solutions India Pvt Ltd.



Manish Sinha
HR Leader

I accept the above terms & conditions:

 / 11-11-2021
Signature Date



12-Jan-2022

Shilpa D P
B.Tech Electronics & Communication Engineering
Dayananda Sagar College of Engineering, Bangalore

Dear Shilpa D P,

Further to our Letter of Intent / Offer for the position of Programmer Analyst Trainee / Programmer Analyst aligned to the hiring category and in response to your subsequent confirmation for Internship Program with us, we are pleased to offer you an Internship with us for a period of 3 to 6 months, starting Dec 2021.

During this period, you will be provided with a stipend of INR 12,000 per month equated to the planned duration of the Internship curriculum and will be paid only subject to successful completion of milestones as defined in the curriculum prior to the monthly stipend processing window for a given month based on your performance and attendance.

Actual commencement of Internship dates and duration would be shortly communicated to you and the internship would be based on the business demand aligned to your skill tracks.

Though Cognizant Internship being a pre-requisite skill and capability development program, it does not guarantee employment. However, the successful completion of Internship will form a critical part of your employment with Cognizant if an opportunity arises in future.

You will undergo a learning curriculum as per the learning track assigned to you. The learning path will include in-depth sessions, hands on exercise and project work. There will also be series of webinars, quizzes, SME interactions, mentor connects, code challenges, assessments etc, to accelerate your learning. The outcome during Internship would be monitored through formal evaluations.

Prior to joining on the rolls of Cognizant, you must have successfully completed the prescribed Internship program. In the event of unsatisfactory Internship, Cognizant reserves rights at its sole discretion to revoke its employment offer.

Please also note that:

- The Internship timings would be for 9 hours per day from Monday through Friday aligned to the working timings followed in Cognizant
- Interns are covered under Cognizant's calendar holidays of the respective location of Internship and you would need to adhere with minimum attendance requirements. Prior approvals are must towards any unavoidable leave or break requests during the program.
- There would be zero tolerance to plagiarisms and misconduct during the Internship. Any such incident reported will lead to immediate cancellation of Internship without any notice.
- You would be required to ensure timely completion and submission of assignments, project work and preparation required prior to the sessions.
- You may be required, to travel to other locations within India if there is a business need as per your internship program
- Cognizant reserves rights regarding IT infra as applicable and access to information and material of Cognizant during the internship period and may modify or amend the Cognizant GenC program terms and conditions from time to time
- Stipend payment will be done for the prescribed Internship Curriculum period only and no additional payment will be done for any delay in completion.
- Attendance and successful completion of Milestone(s) are the eligible factors for processing stipend payment and tenure spent will not guarantee your monthly stipend payment.

At the time of your reporting for the internship, you will be required to sign a Non - Disclosure Agreement with the company. During the course of your internship and after completion of the same, you are required to maintain strictest confidentiality with respect to company proprietary or products that you access or come into contact with, during your project as an Intern, at all times as per our Policy. Use of company proprietary information or products shall not be made without prior permission from the concerned authority. Any breach of information security will be dealt as per Company Policy.

You will also be required to submit the following documents at the time of reporting;

- Photocopy of your Passport & Visa
- Photocopy of your Certificates / Mark Sheets in support of your Educational Qualification(s)
- 2 Passport-size photographs
- Pan Card
- Aadhar Card
- Personal individual bank account from a nationalized bank for processing stipend

Please do not hesitate to call us for any information you may need.

We wish you good luck.

Yours sincerely,
For **Cognizant Technology Solutions India Pvt. Ltd.**,



Maya Sreekumar
Vice President - Human Resource

I accept the terms and conditions of the internship program as mentioned above.

Signature:

Date:



INTERNSHIP AGREEMENT

This Internship Agreement (the "Agreement") is made at Chennai on **28th February, 2022** by and between **Prodapt Solutions Private Limited** with its registered address at Prince Info City II, 4th floor, No. 283/4, Rajiv Gandhi Salai (OMR), Kandanchavadi, Chennai – 96, India ("**Prodapt**" or the "**Company**") and **Sumaiya Anjum** with its address at **Infront of mohammediya masjid, Shanti nagar Nannivala road, challekere - 577522**

The Intern and the Company are collectively hereinafter in this Agreement referred to as the "Parties" and individually as a "Party".

WHEREAS the Company is willing to provide to the Intern certain on-job training (hereinafter referred as "Internship").

WHEREAS the Intern has agreed for the Internship to gain valuable insight and experience on the Company's business.

NOW THEREFORE, in consideration of the foregoing and the mutual covenants contained herein and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereby agree as follows:

- 1) **Term of Agreement.** The Internship shall commence on **7th March, 2022** ("**Commencement Date**") and will continue for a period of 3 months i.e. till **7th June, 2022** ("**Completion Date**") unless a written extension is provided. The Company may at any time in its sole discretion, terminate the internship without notice or cause to the Intern. Provided However, the Intern shall be required to provide four (4) weeks written notice to the Company in the event of termination of this Agreement.
- 2) **Compensation/Stipend.** Your compensation/stipend will be **Rs. 30,000** per month payable in arrears on or before the 7th day of the subsequent month.
- 3) **Internship.** The Intern undertakes to use his/her best efforts and abilities to promote the interests of the Company and shall participate in the Internship during which period the Company shall bear the Internship related expenses. The Intern shall observe the policies, standards and regulations of the Company. This Internship is educational in nature and there is no guarantee or expectation that the internship will result in employment with the Company.
- 4) **Intern Representation.** The Intern represents that he/she is fully authorized to enter into and to perform all obligations under this Agreement without conflicting with any other commitment, agreement or understanding. The Intern represents that the particulars furnished by the Intern regarding the Intern's qualifications and eligibility for this Agreement are correct.



- 5) **Confidentiality.** During the term of Internship with the Company and any time thereafter, the Intern will not use, disclose, reveal or report any confidential information of the Company's past or current clients, or of other parties which have disclosed confidential or proprietary information to the Company. As used herein, "confidential information" means information not generally known that is proprietary to the Company, its clients or other parties, including but not limited to information about any clients, prospective clients, sales proposals, employees, processes, operations, products, services, organization, research, development, accounting, marketing, applications, selling, servicing, finance, business systems, computer systems, software systems and techniques. All information disclosed to Intern, or to which Intern obtains access, whether originated by Intern or by others, which Intern has reasonable basis to believe to be confidential information, or which is treated by the Company or its clients or other parties as being confidential information, shall be presumed to be confidential information. All Confidential information and instructions that pass through to the Intern or come to his/her knowledge in the course of his/her Internship, shall be treated as absolutely confidential and the proprietary property of the Company. The Intern will cooperate with the Company in the execution of any personal confidentiality agreement, which may be required by the Company or its Client or other third party.
- 6) **Intellectual Proprietary Rights.** The Company and its licensors retain for themselves exclusive ownership of all right, title and interest in and to all intellectual and other proprietary rights embodied in or related to this Agreement.
- 7) **Governing Law.** This Agreement shall be governed and confirmed in accordance with the laws of India and subject to the exclusive jurisdiction of Chennai, India without regard to its conflict or choice of law provisions.
- 8) **Non-Waiver.** The failure of either the Company or Intern to exercise in any instance any right under this Agreement shall not constitute a waiver of the same or any other right, power, or privilege in any other instance. Any waiver must be in writing and signed by the party against whom a waiver is alleged.
- 9) **Severability.** If any term of this Agreement is held invalid or unenforceable, the remaining provisions of this Agreement will remain in full force and effect to the fullest extent permitted by law.
- 10) **Counterparts.** This Agreement may be executed in counterparts, each of which shall be deemed an original and each of which shall together constitute one and the same agreement. This Agreement will not become enforceable until executed by the Company.



11) **Entire Agreement.** This Agreement expresses, embodies, and supersedes all previous understandings and agreements, whether written or oral, between the Parties with respect to the subject matter hereof and fully and finally sets forth the entire agreement between the Parties.

IN WITNESS WHEREOF, the Intern and Company have executed this Internship Agreement as of the Effective Date:

For Intern:

Name:

Sumaiya Anjum

Signature:

Sumaiya Anjum

Date: 01/03/2022

For the Company:

Prodapt Solutions Pvt. Ltd.

DocuSigned by:

Pradeep Jumanl

Signature:

Pradeep Jumanl, AVP HR

Date: 28-02-2022

ENGI9EC1002



December 27, 2021

Abhishek Gurappa Gadad

Aashrya PG, Kudku Gate
[59/53,AH43 Krishna Reddy Industrial area],
Bangalore, 560068

Dear Abhishek,

Strictly Private & Confidential

Sub: Internship – NagraVision India Pvt. Ltd.

We are pleased to offer you a position as an **Intern - Engineering at Level 8** with **NagraVision India Pvt. Ltd.**

We would like you to join us on or before **April 1, 2022**. Kindly sign the duplicate-copy of your letter of internship and have it returned to us at the earliest.

Please note that the offer of internship is subject to satisfactory completion of your reference check.

You can send all your communication and any clarification with regards to appointment to the undersigned at the mentioned address **NagraVision India Pvt Ltd.**, at No.301 & 302, 3rd Floor, Campus C, RMZ Centennial, EPIP Industrial Area, ITPL Road, Mahadevapura Post, Bangalore – 560048.

We look forward to a mutually rewarding association with you at **NagraVision India Pvt Ltd.**

Sincerely,

For **NAGRAVISION INDIA PVT LTD.**,

Pradeep Bangalore
Director – Human Resources

NAGRAVISION INDIA PRIVATE LIMITED

No.301 & 302, 3rd Floor, Campus C, RMZ Centennial, EPIP Industrial Area, ITPL Road, Mahadevapura Post, Bangalore – 60048
Tel: +91 80 4909 0400 Fax: +91 80 4909 0599 E-mail: hr@nagravision.com CIN: U72200KA2007PTC0433011

14-07-2022

To,
Dayananda Sagar University
Bengaluru.

Sub : Confirmation letter for internship training

Ref : Your request letter dated 25.06.2022

Dear All,

We are pleased to confirm our acceptance on internship for below listed students in the TEF Department at **SEG Automotive India Pvt Ltd.**, from 18-07-2022 to 17-08-2022. The details related to internship will be provided on the orientation day by the Department Head or the person who is being nominated by him.

Please find the list of students shortlisted for the internship:

1. Gopichandan
2. Manoj S Kadakal

Please report to the Human Resources Department at 8:45am on 18-07-2022 at the below address.

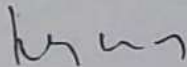
SEG Automotive India Private Limited
Naganathapura, Electronics City,
Post Box No. 10011
Bengaluru – 560 100, Karnataka, India.

Please note that you will not be entitled for any allowance, payments or any other benefits during your training period except canteen facility.

If you have any questions, please feel free to contact HRL2-IN.

We wish you all the best!!!

Sincerely,
Regards



Shyam Sundar
Deputy General Manager- Human Resources
SEG Automotive India Private Limited.

भारत सरकार, रक्षा मंत्रालय
रक्षा अनुसंधान तथा विकास संगठन
गैस टरबाइन अनुसंधान स्थापन
सी.वी.रामन नगर
पत्र पेटी सं. 9302, बेंगलूरु - 560093
संदर्भसं. Ref No: GTRE/HRD/028



Government of India, Ministry of Defence
Defence Research & Development Organization
GAS TURBINE RESEARCH ESTABLISHMENT
C.V. Raman Nagar
Post Box No. 9302, Bengaluru - 560 093
दिनांक Date : 30th May 2022

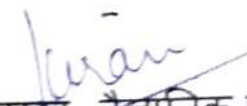


CERTIFICATE

This is to certify that **Mr Akshay Ram K** (Reg No. : **ENG18EC0006**) studying **B.E (ECE)** in **Dayananda Sagar College of Engineering, Bengaluru**, has undergone Project titled "**Inventory Management System Using Python**" in **Programme Management Office, Configuration Control Group (PMO-CCG)** of this Establishment for a duration of one month during **24 April – 31 May 2022** as a part of his B.E programme.

The performance, conduct and character of **Mr Akshay Ram K** have been very good to the best of our knowledge during the period of his Project Work.




किरन धनखंड, वैज्ञानिक-एफ
Kiran Dhankhar, Scientist - 'F'
स्थानापन्न स.नि. (मा.सं.वि.)
Offg Group Director (HRD)
कृते निदेशक /For DIRECTOR

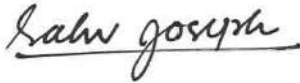
July 31, 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. **Anupriya A Shetty** student of Dayananda Sagar University Bangalore, from Electronics And Communication Engineering bearing USN No. ENG18ECOO12 completed her internship with us, from June 01, 2021 to July 31, 2021. During the period of internship, Anupriya had the opportunity to work and learn in the Embedded Hardware Department.

We wish her all the best in her future endeavours.

Yours truly
For **AADYAH Aerospace Pvt. Ltd**



Sabu Joseph
Director – People & Culture

Serial: **AIOX020921-01**



CERTIFICATE
OF RECOGNITION

BRINDAN B M

For successfully completing the Internship in

UAV – DESIGN

from 19-07-2021 to 17-09-2021

Shivansh Sethi

Shivansh Sethi
[CEO/Founder]

Sukhdeep Singh

Sukhdeep Singh
[CTO]



Camp Automation LLP
257/A, Sangam Circle, Jayanagar
Bangalore – 560082

Jul 1, 2021

Kushal S
#453, 1st Cross, Weavers Colony,
Gottigere, Bannerghatta Road,
Bangalore-63.

Dear Kushal,

We are glad to welcome you to Camp Automation as a Business Development Intern. As an intern you are expected to learn by performing real time assignments. Wish you the most enjoyable, learning packed and truly meaningful internship experience.

Your appointment will be governed by the terms and conditions presented in the Annexure A.

Your joining date is from Jul 1, 2021. Please do not hesitate to call us for any information you may need.

Please sign the duplicate of this offer as your acceptance and forward the same to us.

Congratulations!

Warm Regards,

A handwritten signature in black ink, appearing to read 'Girish Bendigiri', written over a light grey circular stamp.

Girish Bendigiri
Director
Camp Automation LLP



Dayananda Sagar University

School of Engineering, Kudlu Gate,
Hosur Main Road,
Bengaluru - 560068

Department of Electronics and Communication Engineering

USN	Student Name	Research Project Title	Guide
ENG18EC0004	Akansa M P	Machine Learning for the Development of Physical Sensor Models	Anna Merine George
ENG18EC0069	Nikitha Raj		
ENG19EC1012	Yashwitha Shetty		
ENG18EC0076	Prajwal PS	Designing an efficient high speed compressor using Xilinx	Mr. Darshan Halliyavar
ENG18EC0107	Susendra Reddy		
ENG18EC0047	Ganesh kasvi		
ENG18EC0044	Jathin Jain	Mini curiosity rover	Dr. Pushpa P V
ENG18EC0019	B. Tharun Chaitanya		
ENG18EC0037	GALLA BHARGAV		
ENG18EC0064	MEGHANA S	Identification of storm water drain clogs in real time	Dr. Theodore Chandra
ENG18EC0067	NETHRAVATHI B		
ENG18EC0091	S K NAMRATHA		
ENG18EC0112	Uthkarsh m	Gesture Controlled Mini Drone	Dr. Vaibhav Meshram
ENG17EC0033	Gurgo tsetan		
ENG19EC1006	Hrithik B	CNC Drawing Machine	Mr. Puneeth S
ENG17EC0045	Karthik M		
ENG18EC0003	Aditya Iyer	INNOVATION IN AGRICULTURE USING ROCKER ROVER MECHANISM AND MACHINE LEARNING ALGORITHM	Dr. Gayathri K M and Ms. Sudha Deepthi (co-Guide)
ENG18EC0005	Akash Suresh		
ENG18EC0015	Aryan Jain		
ENG18EC0106	Suraj Yadav T K	Solar-powered autonomous agricultural robot	Mr. Abhinav Karan
ENG18EC0104	Srikanth		
ENG18EC0078	Prasad M S		
ENG18EC0082	Puneeth N		
ENG18EC0016	Atharv Dhananjay Nai	Building a Low-Cost Mechanical Ventilator with Pulmonary Monitoring for COVID-19 Patients	Dr. Arungalai Vendan
ENG19EC1004	Dilip Kumar U		
ENG18EC0057	Mahesh KN		
ENG18EC0022	Nai Venkata Dhanush		
ENG19EC0035	G Priyanka	BP Apparatus Project	Mr. Abhinav Karan
ENG19EC0001	Abhilash Francis		

Shree...

Chairman,
Dept. of Electronics and Communication Engineering
School of Engineering,
Dayananda Sagar University,
Kudlu Gate, Hosur Main Road,
Bengaluru - 560 068



DAYANANDA SAGAR UNIVERSITY

School of Engineering
Kudlu gate, Bengaluru-560114

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that Project entitled "LOW-COST MECHANICAL VENTILATOR FOR PULMONARY MONITORING" has been successfully carried out by Atharv Dhananjay Naik (ENG18EC0016), B Sai Venkata Dhanush (ENG18EC0022), Mahesh K N (ENG18EC0057) and Dilip Kumar U (ENG19EC1004) in partial fulfilment of the requirement for the award of the degree BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING by DAYANANDA SAGAR UNIVERSITY during academic year 2021-22

Signature of Guide

Dr. S Arungalai Vendan
Professor, Dept. of ECE
SoE-DSU, Bengaluru

Signature of HOD

Dr. Vaibhav A Meshram
Chairman, Dept. of ECE
SoE-DSU, Bengaluru.

External Examiner:

1) Pawan Sai R
Name

2) Purkha Mala S.
Name

Signature of Coordinator

Dr. Rajashree Narendra,
Professor, Dept. of ECE
SoE-DSU, Bengaluru.

Signature of Dean

Dr. A Srinivas
SoE-DSU, Bengaluru.

Sign

Sign



DAYANANDA SAGAR UNIVERSITY

School of Engineering
Department of Electronics and Communication
Engineering
CERTIFICATE

This is to certify that the Project entitled "**DESIGN AND DEVELOPMENT OF GAS LEAKAGE DETECTION ROVER IN CHEMICAL INDUSTRIES**" has been successfully carried out by **B Tharun Chaitanya (ENG18EC0019), G Bhargav (ENG18EC0037), K Jathin Jain(ENG18EC0044), Abhishek Gadad (ENG19EC1002)** in partial fulfilment of the requirement for the award of the degree **BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING** by **DAYANANDA SAGAR UNIVERSITY** during the academic year 2020-21.

Signature of Guide

Dr. Pushpa P V
Professor, Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Chairman

Dr. Vaibhav A. Meshram Dept. of
ECE SoE-DSU, Bengaluru

Signature of Coordinator

Dr. Pushpa P V
Professor, Dept. of ECE,
SoE-DSU, Bengaluru

Signature of the Dean

Dr. A. Srinivas
SoE-DSU, Bengaluru

External Examiner:

1)
Name

2)
Name

Signature

Signature



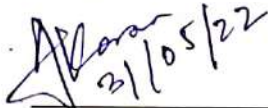
DAYANANDA SAGAR UNIVERSITY

School of Engineering
Kudlu Gate, Bengaluru-560114

Department of Electronics and Communication
Engineering

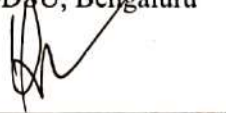
CERTIFICATE

This is to certify that the Project entitled "*Solar Powered Multipurpose Autonomous Agricultural Robot*" has been successfully carried out by Prasad M S [ENG18EC0078], Puneeth N [ENG18EC0082], Srikanth P [ENG18EC0104], Suraj Yadav T K [ENG18EC0106] in partial fulfilment of the requirement for the award of the degree **BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING** by DAYANANDA SAGAR UNIVERSITY during the academic year 2021-22.


21/05/22

Signature of Guide

Mr. Abhinav Karan
Assistant Professor, Dept. of
ECE SoE-DSU, Bengaluru




Signature of the Chairman

Dr. Vaibhav A. Meshram
Dept. of ECE
SoE-DSU, Bengaluru

for 
Signature of Coordinator

Dr. Pushpa P V
Professor, Dept. of
ECE SoE-DSU, Bengaluru


Signature of the Dean

Dr. A. Srinivas
SoE-DSU, Bengaluru

External Examiner:

1) PAWAN SAE R
Name

Pawan Sai
Signature

2) Pushpa Mala S.
Name

Pushpa
Signature



**DAYANANDA SAGAR
UNIVERSITY**
School of Engineering
Kudlu Gate, Bengaluru-560114

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "Computer Numerical Control Drawing Machine" has been successfully carried out by Hrishik B [ENG19EC01006], Syed Imaad [ENG18EC0108], Karthik Mathad [ENG17EC0045], Khundrakpam Neelachandra Singh [ENG17EC0047] in partial fulfilment of the requirement for the award of the degree **BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING** by **DAYANANDA SAGAR UNIVERSITY** during the academic year 2021-22.

Signature of Guide

Mr. Puneeth S
Associate Professor,
Dept. of ECE
SoE-DSU, Bengaluru

Signature of Coordinator

Dr. Pushpa P V
Professor,
Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Chairman

Dr. Vaibhav A Meshram Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Dean

Dr. A. Srinivas
SoE-DSU, Bengaluru

External Examiner:

1) Dr. Narendra CP
Name

Signature

2) Dr. Gayathri. K. M
Name

Signature



DAYANANDA SAGAR UNIVERSITY

School of Engineering
Kudlu Gate, Bengaluru-560114

Department of Electronics and Communication Engineering

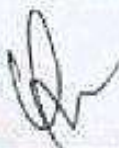
CERTIFICATE

This is to certify that the Project entitled "Applying Machine Learning for the Development of Physical Sensor Models" has been successfully carried out by Akansha M P [ENG18EC0004], Nikitha Raj [ENG18EC0069], Yashwitha Shetty [ENG19EC1012] in partial fulfilment of the requirement for the award of the degree BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING by DAYANANDA SAGAR UNIVERSITY during the academic year 2021-2022.


20/5/2022

Signature of Guide

Mrs. Anna Merine George
Assistant Professor
Dept. of ECE
SoE-DSU, Bengaluru



Signature of the Chairman

Dr. Vaibhav A. Meshram
Dept. of ECE
SoE-DSU, Bengaluru



Signature of Coordinator

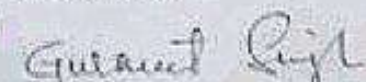
Dr. Pushpa PV
Professor
Dept. of ECE
SoE-DSU, Bengaluru



Signature of the Dean

Dr. A. Srinivas
SoE-DSU, Bengaluru

External Examiner:

1) 
Name


Signature

2) 
Name


Signature

DAYANANDA SAGAR UNIVERSITY

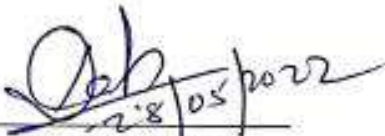
School of Engineering

Kudlu Gate, Bengaluru-560114

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "Designing An Efficient High Speed Compressors Using XILINX" has been successfully carried out by Ganesh Kasvi [ENG18EC0047], P Sai Sujith[ENG18EC0073], Prajwal Palapetty Shakhidharan [ENG18EC0076], Susendra Reddy[ENG18EC0107] in partial fulfilment of the requirement for the award of the degree **BACHELOR OF TECHNOLOGY** in **ELECTRONICS & COMMUNICATION ENGINEERING** by **DAYANANDA SAGAR UNIVERSITY** during the academic year 2021-22.



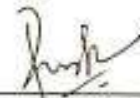
Signature of Guide

Mr. Darshan Halliyavar
Assistant Professor,
Dept. of ECE
SoE-DSU, Bengaluru



Signature of the Chairman

Dr. Vaibhav A Meshram
Dept. of ECE
SoE-DSU, Bengaluru



Signature of Coordinator

Dr. Pushpa P V
Professor,
Dept. of ECE
SoE-DSU, Bengaluru



Signature of the Dean

Dr. A. Srinivas
SoE-DSU, Bengaluru

External Examiner:

1) Gurmeet Singh Ahuja
Name

2) Dr. R. Bhadani
Name



Signature



Signature



DAYANANDA SAGAR UNIVERSITY

School of Engineering
Department of Electronics and Communication
Engineering
CERTIFICATE

This is to certify that the Project entitled "**DESIGN AND DEVELOPMENT OF GAS LEAKAGE DETECTION ROVER IN CHEMICAL INDUSTRIES**" has been successfully carried out by **B Tharun Chaitanya (ENG18EC0019)**, **G Bhargav (ENG18EC0037)**, **K Jathin Jain(ENG18EC0044)**, **Abhishek Gadad (ENG19EC1002)** in partial fulfilment of the requirement for the award of the degree **BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING** by **DAYANANDA SAGAR UNIVERSITY** during the academic year 2020-21.

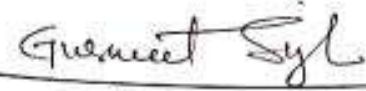

Signature of Guide


Dr. Pushpa P V
Professor, Dept. of ECE
SoE-DSU, Bengaluru


Signature of the Chairman

Dr. Vaibhav A. Meshram Dept. of
ECE SoE-DSU, Bengaluru


External Examiner:

1) 
Name

2) 
Name


Signature of Coordinator

Dr. Pushpa P V
Professor, Dept. of ECE,
SoE-DSU, Bengaluru


Signature of the Dean

Dr. A. Srinivas
SoE-DSU, Bengaluru


Signature


Signature



DAYANANDA SAGAR UNIVERSITY

School of Engineering
Kudlu Gate, Bengaluru-560114

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "IDENTIFICATION OF STORM WATER DRAIN CLOGS IN REAL TIME" has been successfully carried out by MEGHANA S [JENG18EC0064], NETHRAVATHI B [JENG18EC0067], NISARGA MR [JENG18EC0071], SK NAMRATHA [JENG18EC0091] in partial fulfilment of the requirement for the award of the degree BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING by DAYANANDA SAGAR UNIVERSITY during the academic year 2021-22.


Signature of Guide

Dr. THEODORE CHANDRA
Associate Professor,
Dept. of ECE
SoE-DSU, Bengaluru


Signature of the Chairman

Dr. Vaibhav A. Meshram
Dept. of ECE
SoE-DSU, Bengaluru

External Examiner:

1) 
Name

2) 
Name


Signature of Coordinator

Dr. PUSHPA PV
Professor,
Dept. of ECE
SoE-DSU, Bengaluru


Signature of the Dean

Dr. A. Srinivas
Dean,
SoE-DSU, Bengaluru


Signature


Signature



DAYANANDA SAGAR UNIVERSITY

School of Engineering
Kudlu Gate, Bengaluru-560114

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "Gesture Controlled Mini Drone" has been successfully carried out by Uthkarsh M ENG18EC0112 and Gurgo Tseten ENG17EC0033 in partial fulfilment of the requirement for the award of the degree BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING by DAYANANDA SAGAR UNIVERSITY during the academic year 2020-21.

Signature of Guide

Dr. Vaibhav A.
Meshram
Chairman and HOD
of ECE
SoE-DSU, Bengaluru

Signature of the Chairman

Dr. Vaibhav A. Meshram
Dept. of ECE
SoE-DSU, Bengaluru

Signature of Coordinator

Dr. Rajashree
Narendra
Professor, Dept. of
ECE
SoE-DSU, Bengaluru

Signature of the Dean

Dr. A. Srinivas
SoE-DSU, Bengaluru

External Examiner:

1) Dr. Narendra C.P
Name

2) Dr. Gayathri K.M
Name

Signature 21/5/22
Signature 31/5/22

DAYANANDA SAGAR UNIVERSITY

School of Engineering
Kudlu Gate, -560114



Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "IoT based Voice Controlled Robot" has been successfully carried out by Rohan R M [ENG18EC0088], Rohith R [ENG18EC0089], Syed Hizaifa [ENG18EC0109], Vishal M Ganesh [ENG18EC0118] in partial fulfilment of the requirement for the award of the degree **BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING** by **DAYANANDA SAGAR UNIVERSITY** during the academic year 2021-22.


Signature of Guide

Mrs. Nandini Rao G
Assistant Professor,
Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Chairman

Dr. Vaibhav A Meshram
Dept. of ECE
SoE-DSU, Bengaluru

External Examiner:

1) 
Name

2) 
Name


Signature of Coordinator

Dr. Pushpa P V
Professor,
Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Dean

Dr. A. Srinivas
SoE-DSU, Bengaluru

Signature


Signature



DAYANANDA SAGAR UNIVERSITY

School of Engineering
Kudlu Gate, Bengaluru-560114

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "Smart Agriculture Using PLC And IOT" has been successfully carried out by Sahana P [ENGI8EC0090], Vathsala Reddy [ENGI8EC0118], Yeshwanth P [ENGI8EC0120] in partial fulfilment of the requirement for the award of the degree BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING by DAYANANDA SAGAR UNIVERSITY during the academic year 2020-21.

Signature of Guide

Mrs. Nandini Rao G
Assistant Professor,
Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Chairman

Dr. Vaibhav A. Meshram
Dept. of ECE
SoE-DSU, Bengaluru

External Examiner:

1) Gurmeet Singh
Name

2) Dr. P. Bhadani
Name

Signature of Co-Guide

Ms. K Sudha Deepthi
Manager,
Rexroth Bosch
SoE-DSU, Bengaluru

Signature of Coordinator

Dr. Pushpa P V
Professor,
Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Dean

Dr. A. Srinivas
SoE-DSU, Bengaluru

Signature

Signature



DAYANANDA SAGAR UNIVERSITY

School of Engineering
Kudlu Gate, Bengaluru-560114

Department of Electronics and Communication
Engineering

CERTIFICATE

This is to certify that the Project entitled "Secure Access to Bank Accounts at Cash Machines using Iris Recognition System" has been successfully carried out by **Balraju HN[ENG18EC0018]**, **Lohith H[ENG18EC0054]**, **Soumya [ENG18EC0103]**, **Adarsh MC[ENG18EC1002]** in partial fulfilment of the requirement for the award of the degree **BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING** by **DAYANANDA SAGAR UNIVERSITY** during the academic year 2021-22.

Signature of Guide
Mrs. Navya R
Assistant Professor
Dept. of ECE
SoE-DSU, Bengaluru

Signature of Coordinator
Dr. PUSHPA P V
Professor,
Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Chairman
Dr. Vaibhav A. Meshram
Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Dean
Dr. A. Srinivas
SoE-DSU, Bengaluru

External Examiner:

1) Gurmat Singh
Name

Signature

2) Dr. R. Bhadrani
Name

Signature



DAYANANDA SAGAR UNIVERSITY

School of Engineering
Kudlu Gate, Bengaluru-560114

Department of Electronics and Communication
Engineering

CERTIFICATE

This is to certify that the Project entitled "Magic Mirror With Google Home Using Raspberry Pi 3" has been successfully carried out by Aarthi PS[ENG18EC1001], Pradeep R[ENG18EC1007], Srinivasa R[ENG18EC1008] in partial fulfilment of the requirement for the award of the degree BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING by DAYANANDA SAGAR UNIVERSITY during the academic year 2021-22.


27/05/2022

Signature of Guide
Mrs. Navya R
Assistant Professor
Dept. of ECE
SoE-DSU, Bengaluru



Signature of Coordinator
Dr. PUSHPA P V
Professor,
Dept. of ECE
SoE-DSU, Bengaluru

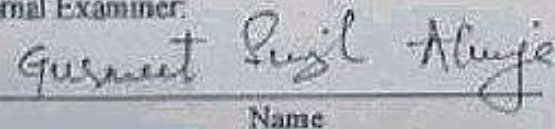


Signature of the Chairman
Dr. Vaibhav A. Meshram
Dept. of ECE
SoE-DSU, Bengaluru



Signature of the Dean
Dr. A. Srinivas
SoE-DSU, Bengaluru

External Examiner:

1) 
Name


Signature

2) 
Name


Signature



DAYANANDA SAGAR UNIVERSITY

School of Engineering
Kudlu Gate, Bengaluru-560114

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "Telemedicine based Patient Health Proctoring System" has been successfully carried out by Satnur Akanksha (ENG18EC0098), Sheethal.L Singh (ENG18EC0099), Sumaiya Anjum (ENG18EC0105), in partial fulfilment of the requirement for the award of the degree **BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING** by **DAYANANDA SAGAR UNIVERSITY** during the academic year 2021-22.

Signature of Guide
Sharanabasavaraj
Assistant professor,
Dept of ECE

Signature of the Chairman
Dr. Vaibhav A Meshram Dept. of ECE
SoE-DSU, Bengaluru

Signature of Coordinator
Pushpa P V
Professor, Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Dean
Dr. A. Srinivas
SoE-DSU, Bengaluru

External Examiner:

1) Gurmeet Singh
Name

2) Dr. R. Bhodni
Name

Signature
Signature



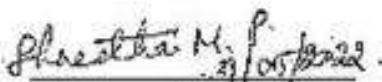
DAYANANDA SAGAR UNIVERSITY

School of Engineering
Kudlu Gate, Bengaluru-560114

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "Smart control of Street light and traffic light using PLC with industry 4.0" has been successfully carried out by A. Vinay Kumar [ENG18EC0001], Charan Kumar R [ENG18EC0026], Chetana A N [ENG18EC0027] in partial fulfillment of the requirement for the award of the degree BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING by DAYANANDA SAGAR UNIVERSITY during the academic year 2020-21.

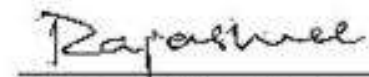


Signature of Guide

Shwetha M P
Assistant Professor
Dept. of ECE
SoE-DSU, Bengaluru


Signature of Co-Guide

Prof. Sudha Deepthi
Assistant Professor
Dept. of ECE
SoE-DSU, Bengaluru

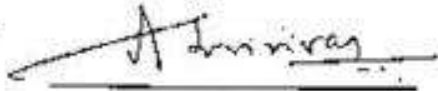


Signature of Coordinator

Dr. Rajashree Narendra
Professor
Dept. of ECE
SoE-DSU, Bengaluru

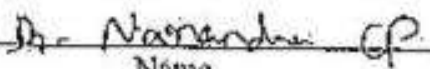

Signature of the Chairman

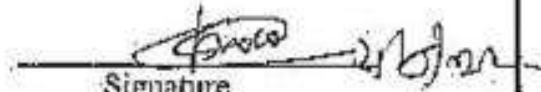
Dr. Vaibhav A. Meshram
Dept. of ECE
SoE-DSU, Bengaluru


Signature of the Dean


Dr. A. Srinivas
SoE-DSU, Bengaluru

External Examiner:

1) 
Name


Signature

2) 
Name


Signature



DAYANANDA SAGAR UNIVERSITY

School of Engineering

Kudlu Gate, Bengaluru-560114

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "EMOTION DETECTION FOR AUDIO PLAYBACK USING AI" has been successfully carried out by AMEYATMA GODKHINDI DIXIT [JENG18EC0007], BHARATH KUMAR R [JENG18EC0021], DARSHAN GAONKAR [JENG18EC0031] in partial fulfilment of the requirement for the award of the degree BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING by DAYANANDA SAGAR UNIVERSITY during the academic year 2021-

22

Signature of Guide

Mrs. Divyashree H B
Assistant Professor
Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Chairman

Dr. Vaibhav A. Meshram
Dept. of ECE
SoE-DSU, Bengaluru

Signature of Coordinator

Dr. Pushpa P V
Professor,
Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Dean

Dr. A. Srinivas
SoE-DSU, Bengaluru

External Examiner:

1) Dr. Narendran C.P

Name

2) Dr. Gayathri K M

Name

Signature

Signature



DAYANANDA SAGAR UNIVERSITY

School of Engineering
Kudlu Gate, Bengaluru-560114

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "Arduino based Automatic Engine Locking System for Drunken Drivers" has been successfully carried out by Mazhar Bilagi[ENG18EC0061], Md Tanveer[ENG18EC0062], Pruthvi U B[ENG18EC0081], Shrinivas R Harwadekar[ENG18EC0102], in partial fulfillment of the requirement for award of the degree BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING by DAYANANDA SAGAR UNIVERSITY during the academic year 2021-22.

Signature of Guide

Pushpa P V
Professor, Dept. of
ECE
SoE-DSU, Bengaluru

Signature of Coordinator

Dr. Rajashree Narendra
Professor, Dept. of
ECE
SoE-DSU, Bengaluru

Signature of the Chairman

Dr. Vaibhav A. Meshram
Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Dean

Dr. A. Srinivas
SoE-DSU, Bengaluru

External Examiner:

1) Dr. Narendran C.P.
Name

Signature

2) Dr. Gayathri K.M
Name

Signature 21/5/22



Dayananda Sagar
University Bangalore

School of Engineering
Department of Electronics & Communication Engineering
Hosur Main Road, Kudlu Gate,
Begur Hobli, Bangalore-560068, India.

CERTIFICATE

This is to certify that the project work titled "Wireless Smart Wheelchair" is carried out by Amit Janshetty (ENG18EC0009), Amit Bhattacharjee (ENG18EC0008), Ajit Kumar Singh (ENG17EC0006), Arun Kumar P (ENG18EC0014), a bonafide students of Bachelor of Technology at the School of Engineering, Dayananda Sagar University, Bangalore in partial fulfillment for the award of degree in Bachelor of Technology in Electronics and Communication Engineering, during the year 2021-2022.

Dr. Sneha Sharma

Assistant Professor
Dept. of ECE,
School of Engineering
Dayananda Sagar University
Date: 25/05/22

Dr. Vaibhav A Meshram

Chairman,
Dept. of ECE,
School of Engineering
Dayananda Sagar University
Date: 25/05/22

Dr. A Srinivasa

Dean,
School of Engineering
Dayananda Sagar
University
Date: 25/05/22

Name of the Examiner

1. Dr. Narendra C.P
2. Dr. Gayatri K.M

Signature of Examiner

31/5/22

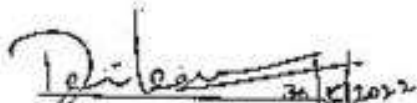
31/5/22




Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "Smart Helmet" has been successfully carried out by Murali Mohan S [ENG16EC0049], Hemanth Kumar K N [ENG19EC1005], Manohar G [ENG19EC1009], Manoj Y R [ENG19EC1010] in partial fulfilment of the requirement for the award of the degree **BACHELOR OF TECHNOLOGY** in **ELECTRONICS & COMMUNICATION ENGINEERING** by **DAYANANDA SAGAR UNIVERSITY** during the academic year 2021-22.


Signature of Guide

Mrs. Devikarani H S
Assistant Professor
Dept. of ECE
SOE-DSU, Bengaluru


Signature of the Chairman

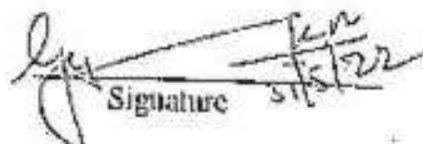
Dr. Vaibhav A. Meshram
Dept. of ECE
SOE-DSU, Bengaluru

External Examiner:

1) Dr. Narasimha CP
Name

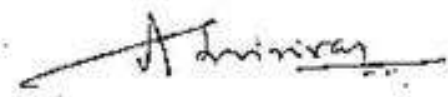

Signature

2) Dr. Galathuri K.H
Name


Signature


Signature of Coordinator

Dr. Pushpa P V
Associate Professor
Dept. of BCE
SOE-DSU, Bengaluru


Signature of the Dean

Dr. A. Srinivas
SOE-DSU, Bengaluru



DAYANANDA SAGAR UNIVERSITY

School of Engineering

Kudlu Gate, Bengaluru-560114

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "**KARAOKE SYSTEM USING OP-AMP AND A STANDALONE WEBSITE FOR VOCAL ELIMINATOR**" has been successfully carried out by **BRINDAN B M [ENG18EC0023]**, **C R RAKSHA [ENG18EC0024]**, **NITHIN N [ENG18EC0072]**, **PRATYUSHA B R [ENG18EC0080]** in partial fulfilment of the requirement for the award of the degree **BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING** by **DAYANANDA SAGAR UNIVERSITY** during the academic year 2021-22.

Signature of Guide

Dr. Arungalai Vendan
Professor
Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Chairman

Dr. Vaibhav A. Meshram
Dept. of ECE
SoE-DSU, Bengaluru

Signature of Coordinator

Dr. Pushpa P V
Professor,
Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Dean

Dr. A. Srinivas
SoE-DSU, Bengaluru

External Examiner:

1) Dr. Narendran C.P
Name

2) R. GAYATHRI K.M
Name

Signature
Signature



DAYANANDA SAGAR UNIVERSITY

School of Engineering
Department of Electronics and Communication
Engineering
CERTIFICATE

This is to certify that the Project entitled "**HAND MOTION CONTROLLED PICK AND PLACE ROBOT**" has been successfully carried out by Arjun H N (ENG18EC0013), Chidrup Y (ENG18EC0028), Kalavara Anil (ENG18EC0046), Manoj G S (ENG18EC0059) in partial fulfilment of the requirement for the award of the degree **BACHELOR OF TECHNOLOGY** in **ELECTRONICS & COMMUNICATION ENGINEERING** by **DAYANANDA SAGAR UNIVERSITY** during the academic year 2020-21.

 21/05/22

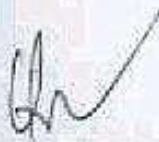
Signature of Guide

Dr. Sneha Sharma
Assistant Professor,
Dept. of ECE SoE-DSU,
Bengaluru



Signature of Coordinator

Dr. Pushpa P V
Professor, Dept. of ECE,
SoE-DSU, Bengaluru



Signature of the Chairman

Dr. Vaibhav A. Meshram Dept. of
ECE SoE-DSU, Bengaluru



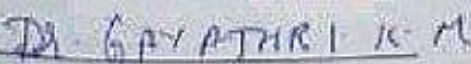
Signature of the Dean

Dr. A. Srinivas
SoE-DSU, Bengaluru

External Examiner:

1) 
Name

 21/5/22
Signature

2) 
Name

 FM
Signature 21/5/22



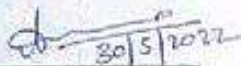
DAYANANDA SAGAR UNIVERSITY

School of Engineering
Kudlu Gate, Bengaluru-560114

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "**PIEZOELECTRIC ENERGY HARVESTING FOR RECHARGING CELL-PHONE BATTERIES**" has been successfully carried out by **MAHESHWARI A M [ENG18EC0058]**, **NANDINI E [ENG18EC0066]**, **RIDDHI MUSKAN [ENG18EC0086]**, **THEJASWINI R [ENG18EC0110]** in partial fulfillment of the requirement for the award of the degree **BACHELOR OF TECHNOLOGY** in **ELECTRONICS & COMMUNICATION ENGINEERING** by **DAYANANDA SAGAR UNIVERSITY** during the academic year 2021-22.


30/5/2022

Signature of Guide

Mrs. Anna Merine George
Assistant Professor
Dept. of ECE
SoE-DSU, Bengaluru



Signature of Coordinator

Dr. Pushpa P V
Professor
Dept. of ECE
SoE-DSU, Bengaluru



Signature of the Chairman

Dr. Vaibhav A. Meshram
Dept. of ECE
SoE-DSU, Bengaluru

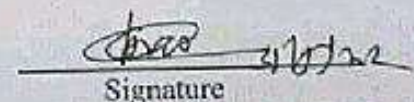


Signature of the Dean

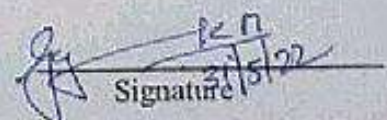
Dr. A. Srinivas
SoE-DSU, Bengaluru

External Examiner:

1) Dr. Naresh Kumar CP
Name


Signature

2) Dr. Gayathri P H
Name


Signature 31/5/22

MRO-H/CM (HR)/073/21

August 31, 2021

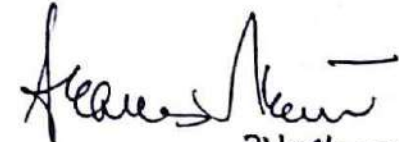
CERTIFICATE

This is to certify that Mr. Hemantha M, USN No.ENG20EC0035 student of Dayananda Sagar University, Bangalore has undergone the Industrial Training in HAL - Helicopter MRO Division from 20.08.2021 to 31.08.2021.

During this period his performance was good.

We wish him a bright future.

For HAL-Helicopter-MRO Division


(A. FRANCIS JUSTIN)
31/08/2021
MANAGER (HR)-MRO

Rinex Internship Certificate | 2022

This certificate is awarded to:

ADITHYA H K

Has successfully completed VERY LARGE SCALE INTEGRATION program in the month of 13-Mar-2022 to 12-Jun-2022 at Rinex.



Academic Director
Rinex Technology

The AVIATE logo features the word "AVIATE" in a bold, black, sans-serif font. Above the letter "A" is a yellow graphic of a robot's head. Below the word "AVIATE" is the tagline "TRANSFORMING LIVES THROUGH ROBOTICS" in a smaller, black, sans-serif font.

Rinex Internship Certificate | 2022

This certificate is awarded to:

Ashrith T Hegde

Has successfully completed VERY LARGE SCALE INTEGRATION program in the month of 13 Mar 2022 to 12 June 2022 at Rinex.



Academic Director
Rinex Technology

The AVIATE logo features a yellow gear icon above the word "AVIATE" in a bold, black, sans-serif font. Below "AVIATE" is the tagline "TRANSFORMING LIVES THROUGH ROBOTICS" in a smaller, black, sans-serif font.



सेंटर फॉर डेवलपमेंट ऑफ टेलीमैटिक्स
भारत सरकार का दूरसंचार प्रौद्योगिकी केन्द्र

Centre for Development of Telematics
TELECOM TECHNOLOGY CENTRE OF GOVT. OF INDIA

24 नवंबर, 2022

प्रमाणपत्र
CERTIFICATE

प्रमाणित किया जाता है कि दयानंद सागर यूनिवर्सिटी, बेंगलुरु से श्री दिवेन्शु केडिया रोल नं. **ENG20EC0030** ने 04 जुलाई 2022 से 30 जुलाई 2022 तक सेंटर फॉर डेवलपमेंट ऑफ टेलीमैटिक्स, बेंगलूर के डिजिटल एंड मॉडेम समूह में "5 जी कोर्स" शीर्षित विषय पर प्रोजेक्ट की है। उनका कार्य निष्पादन अच्छा पाया गया।

This is to certify that **Mr Divaynshu Kedia**, bearing Reg. No. **ENG20EC0030** from Dayananda Sagar University, Bengaluru has done Project training in **Digital & Modem Group**, Centre for Development of Telematics, Bangalore, from 4th July 2022 to 30th July 2022 on the topic titled "**5G Course**". His/her performance was found to be good.

श्री वी. हरी प्रसाद

श्री हरी प्रसाद एस वी/ Shri Hari Prasad S V
ग्रुप लीडर / Group Leader
डिजिटल एंड मॉडेम समूह / Digital & Modem Group

डॉ. वाई.वी.एस. लक्ष्मी

डॉ. वाई.वी.एस. लक्ष्मी /
Dr. Y.V.S. LAKSHMI
ग्रुप लीडर / Group Leader
ज्ञान प्रबंधन समूह / Knowledge
Management Group



सेंटर फॉर डेवलपमेंट ऑफ टेलीमैटिक्स
भारत सरकार का दूरसंचार प्रौद्योगिकी केन्द्र

Centre for Development of Telematics
TELECOM TECHNOLOGY CENTRE OF GOVT. OF INDIA

24 नवंबर, 2022

प्रमाणपत्र
CERTIFICATE

प्रमाणित किया जाता है कि दयानंद सागर यूनिवर्सिटी, बेंगलुरु से सुश्री बिंध्या एम रोल नं. **ENG20EC0021** ने 04 जुलाई 2022 से 30 जुलाई 2022 तक सेंटर फॉर डेवलपमेंट ऑफ टेलीमैटिक्स, बेंगलूर के डिजिटल एंड मॉडेम समूह में "5 जी कोर्स" शीर्षित विषय पर प्रोजेक्ट की है। उनका कार्य निष्पादन अच्छा पाया गया।

This is to certify that **Ms Bindhya M**, bearing Reg. No. **ENG20EC0021** from Dayananda Sagar University, Bengaluru has done Project training in **Digital & Modem Group**, Centre for Development of Telematics, Bangalore, from 4th July 2022 to 30th July 2022 on the topic titled "**5G Course**". His/her performance was found to be good.

एच.वी. हरी प्रसाद

श्री हरी प्रसाद एस वी/ Shri Hari Prasad S V
ग्रुप लीडर / Group Leader
डिजिटल एंड मॉडेम समूह / Digital & Modem Group

वाई.वी.एस. लक्ष्मी

डॉ. वाई.वी.एस. लक्ष्मी /
Dr. Y.V.S. LAKSHMI
ग्रुप लीडर / Group Leader
ज्ञान प्रबंधन समूह / Knowledge
Management Group



INTERNSHIP CERTIFICATION

This is to certify that

Meenakshi

has successfully completed internship program in **IoT, Robotics and Embedded System**
from 01st Nov, 2021 to 31st Dec, 2021. During the internship, the student
was found to be dedicated, hardworking and diligent.

ACADEMIC HEAD



DIRECTOR SIGNATURE

CERTIFICATE

OF COURSE COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Shreyas Sn

Has successfully completed course on Embedded Systems
from the period of 1/7/2022 to 31/8/2022.

During his/her training we found the student was dedicated and hard working.

16-09-2022

DATE



P. Naveen

ACADEMIC HEAD




DAYANANDA SAGAR UNIVERSITY

School of Engineering
Kudlu Gate, Bengaluru-560114

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the *Project* entitled *Prediction and Analysis of Crop Related Diseases on Farmland using a Rover and Machine Learning* has been successfully carried out by **Aditya Iyer [ENG18EC0003]**, **Akash Suresh [ENG18EC0005]**, **Aryan Jain [ENG18EC0015]** and **Kushal J [ENG18EC0051]** in partial fulfillment of the requirement for the award of the degree **BACHELOR OF TECHNOLOGY** in **ELECTRONICS & COMMUNICATION ENGINEERING** by **DAYANANDA SAGAR UNIVERSITY** during the academic year 2021-22.


Signature of Guide

Dr. Gayathri KM
Associate Professor,
Dept. of ECE,
SoE-DSU, Bengaluru


Signature of Chairman

Dr. Vaibhav Meshram
Chairman, Dept. of ECE,
SoE-DSU, Bengaluru

External Examiner:

1) Dr. Gopalakrishna K
Name

2) Dr. SAARA K
Name

Signature of Co-Guide


Mrs. K Sudha Deepthi
Assistant Manager and
Certified Instructor, Rexroth
Bosch,
SoE-DSU, Bengaluru



Signature of Coordinator

Dr. Rajashree Narendra
Professor, Dept. of ECE,
SoE-DSU, Bengaluru


Signature of Dean

Dr. A. Srinivas
Dept. of ECE,
SoE-DSU, Bengaluru


Signature


Signature

ACKNOWLEDGEMENT

The completion of my final year project brings a sense of great satisfaction, but it is never complete without thanking the people responsible for its successful completion.

First, we take this opportunity to express our sincere gratitude to School of Engineering, Dayananda Sagar University, for providing us with a great opportunity to pursue our Bachelor's Degree in this institution.

*In particular we would like to thank **Dr. A Srinivasa**, Dean, School of Engineering, Dayananda Sagar University for his constant encouragement and expert advice.*

*It is a matter of immense pleasure to express our sincere thanks to **Dr. Vaibhav M**, Chairman of the department, Electronics and communication Engineering, Dayananda Sagar University, for providing right academic guidance that made our task possible.*

*We would like to thank our guide **Dr. Gayathri KM**, Associate Professor, Dept. of Electronics and Communication Engineering, Dayananda Sagar University and **Mrs. K Sudha Deepthi**, Assistant Manager and Certified Trainer, Rexroth Bosch, Dayananda Sagar University for sparing their valuable time to extend help in every step of our project work, which paved the way for smooth progress and fruitful culmination of the project.*

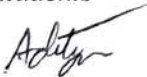
*We would like to thank our Project Coordinators **Dr. Rujashree Narendra**, Professor and **Dr. Pushpa PV**, Professor and **all the staff members** of Electronics and Communication for their support.*

We are also grateful to our family and friends who provided us with every requirement throughout the course.

We would like to thank one and all who directly or indirectly helped us in completing the Project work successfully.

Signature of Students

Aditya Iyer



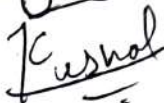
Akash Suresh



Aryan Jain



Kushal J





Dayananda Sagar University

School of Engineering

Kudlu Gate, Bengaluru-560068

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Mini Project work titled "Design of PLC automatic water and fertilizer integrated system in greenhouse" has been successfully carried out by Madan kumar A (ENG19EC0056), Manu T (ENG19EC0060), Manu S R (ENG19EC0059), Yaswanth (ENG19EC0061), Shubham Kumar Singh (ENG19EC0093), is an authentic record of work carried out under the guidance of Prof. Puneeth S during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

Signature of the Faculty
Prof. Puneeth S
Assistant Professor, Dept. of ECE
SoE, DSU, Bengaluru

Signature of the Chairman
Dr. Vaibhav A Meshram
Dept. of ECE
SoE, DSU, Bengaluru

Signature of the Dean
Dr. A Srinivas
SoE-DSU, Bengaluru



Dayananda Sagar University

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Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Mini Project work titled "Staircase light control system" has been successfully carried out by Zafeerah Sameen Subhani (ENG19EC0108), Parvathy Suresh (ENG19EC0074), Kaushik.S (ENG19EC0081), Sai Praneeth KMG (ENG19EC0084) is an authentic record of work carried out under the guidance of Prof. Puneeth S during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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SoE-DSU, Bengaluru



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CERTIFICATE

This is to certify that the Mini Project work titled "Automated Car Parking" has been successfully carried out by Usha N (ENG19EC0100), priya.s (ENG19EC0071), Mohammed Saif (ENG19EC0062), R Mokshith (ENG19EC0072) is an authentic record of work carried out under the guidance of Prof. Puneeth S during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "PLC Based Automatic Dam Shutter Open/close System" has been successfully carried out by Vaishnavi (ENG19EC0102), Pallavi R (ENG20EC1006), Netravathi Ys (ENG19EC0064), Nivedha.P (ENG19EC0066), Soumya b odi (ENG19EC0096) is an authentic record of work carried out under the guidance of Prof. Puneeth S during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "PLC Based automatic cleaning system in tanks." has been successfully carried out by Pranaam P (ENG19EC0068), Praveen Choudhari (ENG19EC0069), Sharath (ENG19EC0091), Pavan C (ENG19EC0067), Manoj S Kadakal (ENG19EC0058) is an authentic record of work carried out under the guidance of Prof. Puneeth S during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Automatic bottle filling system using PLC" has been successfully carried out by Daivik D (ENG18EC0029), S Sai mokshith (ENG19EC0085), Sathvika R (ENG19EC0088), Sharan A N (ENG19EC0090) is an authentic record of work carried out under the guidance of Prof. Puneeth S during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

Handwritten signature of Prof. Puneeth S in blue ink.

Signature of the Faculty
Prof. Puneeth S
Assistant Professor, Dept. of ECE
SoE, DSU, Bengaluru

Handwritten signature of Dr. Vaibhav A Meshram in blue ink.

Signature of the Chairman
Dr. Vaibhav A Meshram
Dept. of ECE
SoE, DSU, Bengaluru

Handwritten signature of Dr. A Srinivas in blue ink.

Signature of the Dean
Dr. A Srinivas
SoE-DSU, Bengaluru



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CERTIFICATE

This is to certify that the Mini Project work titled "PLC Based Irrigation Controller for Garden" has been successfully carried out by Rakshith B S (ENG19EC0077), Rakshitha M (ENG19EC0079), S V S Ram pranav (ENG19EC0083), Sharan Bhasava (ENG19EC0082) is an authentic record of work carried out under the guidance of Prof. Puneeth S during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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SoE-DSU, Bengaluru



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Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Mini Project work titled "Plc based multi channel fire detection and alarm systems" has been successfully carried out by Rahul Gowda N K (ENG19EC0076), Sadhana S (ENG18EC0092), R Nethravathi (ENG19EC0073), Sneha K (ENG19EC0094), Varshini A (ENG19EC0104) is an authentic record of work carried out under the guidance of Prof. Puneeth S during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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SoE-DSU, Bengaluru



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CERTIFICATE

This is to certify that the Mini Project work titled "PLC Based Home Automation System" has been successfully carried out by Madhushree M (ENGI9EC0057), Monica K S (ENGI9EC0063), Priya G Shastry (ENGI9EC0070) is an authentic record of work carried out under the guidance of Prof. Puneeth S during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "PLC Program for Alarm Security System (burglar)" has been successfully carried out by Revathi R (ENG19EC0080), Sanmathi C (ENG19EC0086), Swathi M (ENG19EC0098), Vaishnavi J (ENG19EC0103) is an authentic record of work carried out under the guidance of Prof. Puneeth S during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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SoE-DSU, Bengaluru



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Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Mini Project work titled "PLC Program for Counting Moving Objects on Conveyor" has been successfully carried out by Ningesh k (ENG20EC1004), Noman Jaffer (ENG20EC1005), Rahul p (ENG20EC1007) is an authentic record of work carried out under the guidance of Prof. Puneeth S during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Mini Project work titled "PLC automated Color mixing" has been successfully carried out by V ABHISHEK (ENG19EC0101), Y VISHNU SAI (ENG4:429EC0107), SUPRIYO DEY (ENG19EC0097), SANTOSH G (ENG19EC0087) is an authentic record of work carried out under the guidance of Prof. Puneeth S during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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SoE-DSU, Bengaluru



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Kudlu Gate, Bengaluru-560068

Department of Electronics and Communication Engineering

CERTIFICATE

*This is to certify that the **Mini Project** work titled "**ELECTRO MAGNETIC INDUCTION**" has been successfully carried out by **NIKHIL M PUTANIKAR (ENG20EC0060)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

Signature of the Faculty
Prof. Nandini Rao
Assistant Professor, Dept. of ECE
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Dr. A Srinivas
SoE-DSU, Bengaluru



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Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Mini Project work titled "Simulation of maxwell's equation" has been successfully carried out by Aman kumar (ENG20EC0010) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

Signature of the Faculty
Prof. Nandini Rao
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School of Engineering

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Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Mini Project work titled "Reed Switch" has been successfully carried out by Hitesh K (ENG20EC0038) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

Signature of the Faculty
Prof. Nandini Rao
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SoE-DSU, Bengaluru



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Kudlu Gate, Bengaluru-560068

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Mini Project work titled "Low power am radio transmitter" has been successfully carried out by Narasimharaju H M (ENG20EC0057) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

Signature of the Faculty
Prof. Nandini Rao
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SoE-DSU, Bengaluru



Dayananda Sagar University

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Kudlu Gate, Bengaluru-560068

Department of Electronics and Communication Engineering

CERTIFICATE

*This is to certify that the **Mini Project** work titled “**Metal Detector using Arduino**” has been successfully carried out by **Dileep Raj N (ENG20EC0029)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

Signature of the Faculty
Prof. Nandini Rao
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School of Engineering

Kudlu Gate, Bengaluru-560068

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Mini Project work titled "Telsa coil" has been successfully carried out by Nikhil Kumar .M (ENG20EC0045) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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SoE-DSU, Bengaluru



Dayananda Sagar University

School of Engineering

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Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Mini Project work titled "Tesla coil" has been successfully carried out by Monisha S (ENG20EC0054) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Mini Project work titled "MAXWELLS FIRST EQUATION" has been successfully carried out by Dheeraj A (ENG20EC0027) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

*This is to certify that the **Mini Project** work titled "**EMF DETECTOR**" has been successfully carried out by **Gangadhar K G (ENG20EC0031)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

This is to certify that the Mini Project work titled "RIGHT HANDED CIRCULAR POLARISATION" has been successfully carried out by Nikhil S (ENG20EC0061) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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*This is to certify that the **Mini Project** work titled "**EMF DETECTOR**" has been successfully carried out by **Kushal P (ENG20EC0043)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

This is to certify that the Mini Project work titled "Wireless power transfer" has been successfully carried out by Abhinav s varma (ENG20EC0002) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

Signature of the Faculty
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Signature of the Dean
Dr. A Srinivas
SoE-DSU, Bengaluru



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CERTIFICATE

This is to certify that the Mini Project work titled "Simulation of Maxwell equation and Electromagnetic induction" has been successfully carried out by Chethan Kumar D S (ENG20EC0024) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Crystal radio receiver" has been successfully carried out by ADITHYA H K (ENG20EC0003) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Right handed circular polarisation" has been successfully carried out by Karjala Geethesh chowdary (ENG20EC0039) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

*This is to certify that the **Mini Project** work titled “Automatic hand sanitizer dispenser using IR proximity sensor” has been successfully carried out by **Nayana U (ENG20EC0059)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

This is to certify that the Mini Project work titled "RIGHT HANDED CIRCULAR POLARISATION" has been successfully carried out by Nikhil S (ENG20EC0061) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Metal Detector" has been successfully carried out by Harsha B Manakwad (ENG20EC0033) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

*This is to certify that the **Mini Project** work titled “**Vacuum system leak detection using tesla coil**” has been successfully carried out by **B. Reshma (ENG20EC0017)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

This is to certify that the Mini Project work titled "Right Handed Circular Polarization" has been successfully carried out by A Staine Joshua (ENG20EC0001) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Wireless power transmission" has been successfully carried out by Akheel Ahmed A (ENG20EC0008) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Metal detector using arduino" has been successfully carried out by Praveen B (ENG21EC1006) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Metal Detector using Arduino" has been successfully carried out by Dileep Raj N (ENG20EC0029) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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This is to certify that the Mini Project work titled "Metal Detector" has been successfully carried out by Harsha B Manakwad (ENG20EC0033) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

*This is to certify that the **Mini Project** work titled "**Reed switch and its working.**" has been successfully carried out by **Indhushree D (ENG20EC0037)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

This is to certify that the Mini Project work titled "Wireless electricity transfer using copper coil" has been successfully carried out by Adithya J (ENG20EC0004) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Low power AM Radio transmitter" has been successfully carried out by PAVAN KUMAR S (ENG21EC1005) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

*This is to certify that the **Mini Project** work titled “**Electromagnetic induction model wireless power transmission**” has been successfully carried out by **Bhoomika M (ENG20EC0020)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

This is to certify that the Mini Project work titled "Ultrasonic radar" has been successfully carried out by Ashwin J (ENG20EC0016) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled “LED DISTANCE DETECTOR” has been successfully carried out by MAMILLAPALLI PUNITH VINAY RAO (ENG20EC0050) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Signal jammer" has been successfully carried out by Naveen S Rayagonnavar (ENG21EC1004) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "RIGHT HANDED CIRCULAR POLARISATION" has been successfully carried out by Akhilesh B M (ENG20EC0009) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled “

***AUTOMATIC HAND SANITIZER DISPENSER USING IR PROXIMITY SENSOR**” has been successfully carried out by **Monisha Mondal (ENG20EC0053)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

This is to certify that the Mini Project work titled "LED DISTANCE INDICATOR" has been successfully carried out by Muheez h. J (ENG20EC0055) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

*This is to certify that the **Mini Project** work titled "**SIGNAL JAMMER**" has been successfully carried out by **GURUSHREYAS N (ENG20ECOO32)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

This is to certify that the Mini Project work titled “Wireless power transmission using Tesla coil” has been successfully carried out by Bindhya.M (ENG20EC0021) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled “ELECTROMAGNETIC INDUCTION MODEL | WIRELESS POWER TRANSMISSION” has been successfully carried out by Lahari T M (ENG20EC0044) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Crystal radio receiver" has been successfully carried out by Ashrith Hegde (ENG20EC0015) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Electromagnetic crane" has been successfully carried out by Chudaar mukhi Baskaran (ENG20EC0026) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Tesla coil" has been successfully carried out by Kishan HB (ENG20EC0041) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

*This is to certify that the **Mini Project** work titled "**Vacuum system leak detection**" has been successfully carried out by **Archana B (ENG20EC0013)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

*This is to certify that the **Mini Project** work titled "**Li-Fi**" has been successfully carried out by **Manjesh s (ENG20EC0051)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

This is to certify that the Mini Project work titled "Ultrasonic radar" has been successfully carried out by Arjun S Gowda (ENG20EC0014) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

*This is to certify that the Mini Project work titled "Electrostatic polarity detector" has been successfully carried out by **BINDUSHREE K V (ENG20EC0022)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

This is to certify that the Mini Project work titled "Wireless Power transmission using Tesla coil" has been successfully carried out by Chandana K T (ENG20EC0023) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

Signature of the Faculty
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Dept. of ECE
SoE, DSU, Bengaluru

Signature of the Dean
Dr. A Srinivas
SoE-DSU, Bengaluru



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CERTIFICATE

*This is to certify that the **Mini Project** work titled "**Simulation of Maxwell Equation**" has been successfully carried out by **Banu Prasad B (ENG20EC0018)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

This is to certify that the Mini Project work titled "MAXWELLS FIRST EQUATION" has been successfully carried out by Dheeraj A (ENG20EC0027) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Electromagnetic crane" has been successfully carried out by Chitra P R (ENG20EC0025) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Crystal radio receiver" has been successfully carried out by MARUTHI NR (ENG21EC1002) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled “

AUTOMATIC HAND SANITIZER DISPENSER USING

IR PROXIMITY SENSOR” has been successfully carried out by ***Ranjitha S M (ENG21EC1007)*** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Automatic hand sanitizer dispenser using IR proximity sensor." has been successfully carried out by Nayana U (ENG20EC0059) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

*This is to certify that the Mini Project work titled “EMF detector” has been successfully carried out by **Hemanth M (ENG20EC0035)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

This is to certify that the Mini Project work titled "Signal jammer" has been successfully carried out by Madhusudhan D P (ENG20EC0047) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "LIFI" has been successfully carried out by Honnesh D (ENG20EC0036) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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This is to certify that the Mini Project work titled "AUTOMATIC HAND SANITIZER DISPENSER USING

IR PROXIMITY SENSOR" has been successfully carried out by Meenakshi (ENG20EC0052) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

*This is to certify that the **Mini Project** work titled "**Electromagnetic induction "wireless power transmission"**" has been successfully carried out by **Madhushree Y (ENG20EC0046)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

*This is to certify that the **Mini Project** work titled "**Li-fi Project**" has been successfully carried out by **Navaneeth S R (ENG20EC0058)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

This is to certify that the Mini Project work titled "Tesla coil ,wireless power transfer" has been successfully carried out by Aishwarya Kulkarni (ENG20EC0005) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled “MUDRA THERAPY USING ROBOTIC GLOVES FOR DIFFERENTLY ABLED PEOPLE” has been successfully carried out by Divyanshu Kedia (ENG20EC0030) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Electrostatic field detector" has been successfully carried out by Ankitha S M (ENG20EC0011) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

*This is to certify that the Mini Project work titled "EMF DETECTOR" has been successfully carried out by **Kushal P (ENG20EC0043)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

*This is to certify that the **Mini Project** work titled "**Ultrasonic Radar**" has been successfully carried out by **Akash K H (ENG20EC0007)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

This is to certify that the Mini Project work titled "Low power AM radio transmitter" has been successfully carried out by Naveen (ENG21EC1003) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Simulation of Maxwell Equation and Electromagnetic induction" has been successfully carried out by Akash G (ENG20EC0006) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Low power AM radio transmitter" has been successfully carried out by Hemanth M. N (ENG20EC0034) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled “Electrostatic polarity detector” has been successfully carried out by Anupama samagond (ENG20EC0012) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

*This is to certify that the **Mini Project** work titled "**EMF DETECTOR**" has been successfully carried out by **Krishna Kumar G (ENG20EC0042)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

This is to certify that the Mini Project work titled "Tesla coil" has been successfully carried out by Nandini d (ENG20EC0056) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-2022. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Audio amplifier" has been successfully carried out by Yogeshwar R (ENG21EC0148) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-22. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Solar tracker with using aurdino" has been successfully carried out by Vani Devanand Lachyan (ENG21EC0136) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2020-22. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Project Morse" has been successfully carried out by Vakamalla Srilakshmi (ENG21EC0135) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2020-22. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled “MORSE CODE IMPLEMENTATION” has been successfully carried out by Syeda Ishrath Zama (ENG21EC0128) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2020-22. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

*This is to certify that the **Mini Project** work titled “**Unbaised electronics dice using LEDs**” has been successfully carried out by **Uzma kowser (ENG21EC0134)** is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2020-22. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.*

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CERTIFICATE

This is to certify that the Mini Project work titled "Unbiased Electronic Dice" has been successfully carried out by UDAY KIRAN REDDY G (ENG21EC0133), Uzma Kowser (ENG21EC0134), Vishal Raj B N (ENG21EC0142) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2020-22. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Automatic hand sanitizer dispenser" has been successfully carried out by Suhas K V (ENG21EC0121), Tejas R(ENG21EC0130), Veeranag Dasar (ENG21EC0137), Vishruth J (ENG21EC0144) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-22. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Solar mobile charger" has been successfully carried out by Syed Omar (ENG21EC0127) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2020-22. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Motion detection using GSM" has been successfully carried out by Chandan kumar B S (ENG21EC0018), Tejas S(ENG21EC0131), Thanisha K (ENG21EC0132) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2020-22. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

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CERTIFICATE

This is to certify that the Mini Project work titled "Smart Door Lock System Using Aurdino" has been successfully carried out by Pradeep Muddappalavar (ENG21EC0086), Suhas M Kinagi(ENG21EC0122), Vikas Gowda (ENG21EC0140), Suyog Kudachi (ENG21EC0124), TEJAS B R (ENG21EC0129) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2020-22. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

Signature of the Faculty
Prof. Nandini Rao
Assistant Professor, Dept. of ECE
SoE, DSU, Bengaluru

Signature of the Chairman
Dr. Vaibhav A Meshram
Dept. of ECE
SoE, DSU, Bengaluru

Signature of the Dean
Dr. A Srinivas
SoE-DSU, Bengaluru



Dayananda Sagar University

School of Engineering

Kudlu Gate, Bengaluru-560068

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Mini Project work titled "Water Level Sensor" has been successfully carried out by Sushilkumar A Kotrannavar (ENG21EC0123), Vikas (ENG21EC0139) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2021-22. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

Signature of the Faculty
Prof. Nandini Rao
Assistant Professor, Dept. of ECE
SoE, DSU, Bengaluru

Signature of the Chairman
Dr. Vaibhav A Meshram
Dept. of ECE
SoE, DSU, Bengaluru

Signature of the Dean
Dr. A Srinivas
SoE-DSU, Bengaluru



Dayananda Sagar University

School of Engineering

Kudlu Gate, Bengaluru-560068

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Mini Project work titled "Distance measurement with ultrasonic sensor and buzzer" has been successfully carried out by Syed Mawish Hyder (ENG21EC0125), Syed Omar(ENG21EC0126) is an authentic record of work carried out under the guidance of Prof. Nandini Rao during the academic year 2020-22. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in the report. This Mini Project has not been previously submitted anywhere for the award of any other degree.

Signature of the Faculty
Prof. Nandini Rao
Assistant Professor, Dept. of ECE
SoE, DSU, Bengaluru

Signature of the Chairman
Dr. Vaibhav A Meshram
Dept. of ECE
SoE, DSU, Bengaluru

Signature of the Dean
Dr. A Srinivas
SoE-DSU, Bengaluru



Dayananda Sagar University

School of Engineering

Kudlu Gate, Bengaluru-560068

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "Multi-Patient Health Monitoring System Using Arduino Mega" has been successfully carried out by ANJUSHREE HS (ENG20EMS001) in partial fulfillment of the requirement for the award of the degree MASTER OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING by DAYANANDA SAGAR UNIVERSITY during the academic year 2020-22.

Signature of the Chairman
Dr. Vaibhav A Meshram
Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Guide

External Examiner

1) Rahul. H
Name

Signature

Internal Examiner

2) Rahul. H
Name

Signature



Dayananda Sagar University

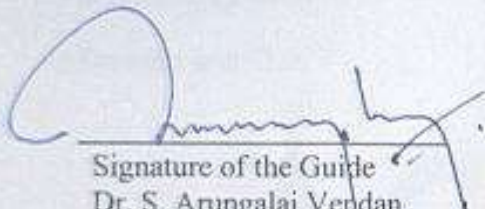
School of Engineering

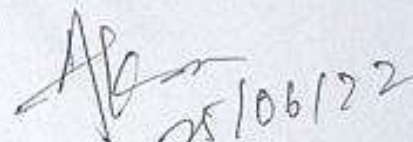
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Department of Electronics and Communication Engineering

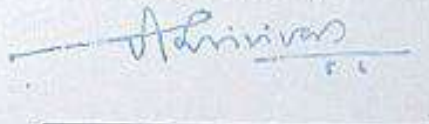
CERTIFICATE

This is to certify that the *Project* entitled "**SYSTEM ON CHIP VIRTUAL PROTOTYPING**" has been successfully carried out by **NILAY N. BIRMOLE (ENG20EMS003)** in partial fulfillment of the requirement for the award of the degree **MASTER OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING** by **DAYANANDA SAGAR UNIVERSITY** during the academic year 2021-22.

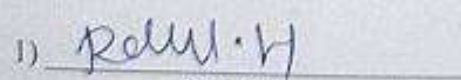

Signature of the Guide
Dr. S. Arungalai Vendan
Prof. Dept. of ECE
SoE-DSU, Bengaluru



Signature of the Coordinator
Mr. Abhinav Karan
Asst. Prof. Dept. of ECE
SoE-DSU, Bengaluru

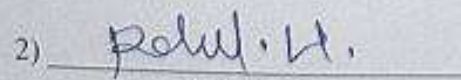

Signature of the Chairman
Dr. Vaibhav A Meshram
Dept. of ECE
SoE-DSU, Bengaluru



Signature of the Dean
Dr. A Srinivas
SoE-DSU, Bengaluru

External Examiner

1) 
Name


Signature

2) 
Name


Signature

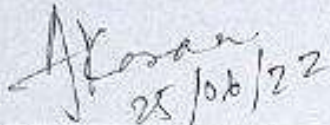


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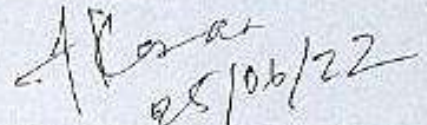
Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "A WSN based automated irrigation Project" has been successfully carried out by DEEKSHITHA V (ENG20EMS004), in partial fulfilment of the requirement for the award of the degree MASTER OF TECHNOLOGY in EMBEDDED SYSTEMS by DAYANANDA SAGAR UNIVERSITY during the academic year 2020-22.


25/06/22

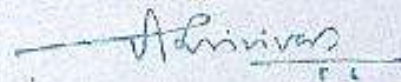
Signature of the Guide
Mr. ABHINAV KARAN
Assistant Professor,
SoE, DSU, Bengaluru


25/06/22

Signature of the Coordinator

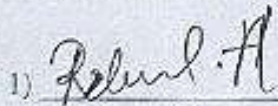


Signature of the Chairman
Dr. Vaibhav A Mesh ram
Dept. of ECE
SoE-DSU, Bengaluru

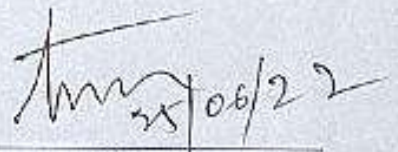

A Srinivas

Signature of the Dean
Dr. A Srinivas
SoE-DSU, Bengaluru

External Examiner

1) 

Name


25/06/22

Signature

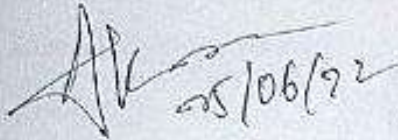
2)

Name

Signature

BONAFIDE CERTIFICATE

This is to certify that the project titled **5G UE SIMULATOR AND TRANSCEIVER FRAMEWORK** is a bonafide record of the work done by **MEGHANA G S (ENG20EMS005)** in partial fulfillment of the requirements for the award of the degree of **MASTER OF TECHNOLOGY** in **EMBEDDED SYSTEMS** of the **DAYANANDA SAGAR UNIVERSITY, BANGALORE**, during the year **2020-2022**.

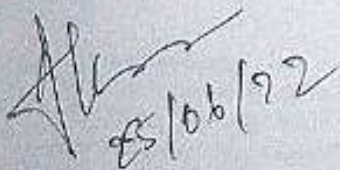


Mr Abhinav
Assistant professor
ECE Department,
DSU, Bengaluru

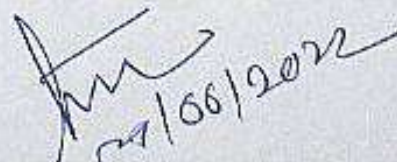


Dr. Vaibhav
Chairman of the
ECE Department,
DSU, Bengaluru

Project Viva-voce held on 25-06-22



Internal Examiner



External Examiner

Prof. H.



Dayananda Sagar University

School of Engineering

Kudlu Gate, Bengaluru-560068

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "**IoT ENABLED SMART CHARGING STATION FOR EVs**" has been successfully carried out by **MOHAMMED SHAHAB (ENG20EMS006)**, in partial fulfilment of the requirement for the award of the degree **MASTER OF TECHNOLOGY in EMBEDDED SYSTEMS** by **DAYANANDA SAGAR UNIVERSITY** during the academic year 2020-2022.

Saara K
25/6/22

Signature of the Guide
Dr. Saara K
Associate Professor,
SoE-DSU, Bengaluru.

Signature of the Chairman
Dr. Vaibhav A Meshram
Dept. of ECE
SoE-DSU, Bengaluru

External Examiner

1) RAHUL H.
Name

2) _____
Name

Abhinav Karan
25/06/22

Signature of the Coordinator
Prof. Abhinav Karan,
Asst.prof. Dept. of ECE
SoE-DSU, Bengaluru

Signature of the Dean
Dr. A Srinivas
SoE-DSU, Bengaluru

A Srinivas
25/06/22
Signature

Signature



Dayananda Sagar University

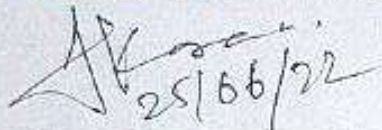
School of Engineering

Kudlu Gate, Bengaluru-560068

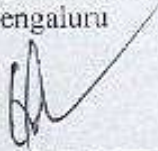
Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project entitled "**A MOTORCYCLE'S ELECTRICAL AND ELECTRONIC MODULES**" has been successfully carried out by **RIDA FATIMA (ENG20EMS007)**, in partial fulfilment of the requirement for the award of the degree **MASTER OF TECHNOLOGY** in Embedded Systems by **DAYANANDA SAGAR UNIVERSITY** during the academic year 2020-22.



Signature of the Guide
Prof. Abhinav Karan
Asst. prof. Dept. of ECE
SoE-DSU, Bengaluru

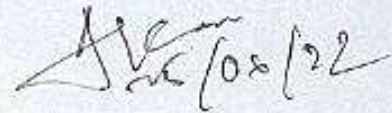


Signature of the Chairman
Dr. Vaibhav A Meshram
Dept. of ECE
SoE-DSU, Bengaluru

External Examiner

1) Rahul H
Name

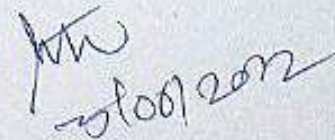
2) Rahul H
Name



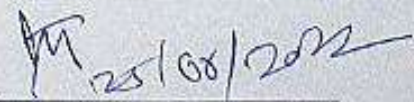
Signature of the Coordinator
Prof. Abhinav Karan
Asst. prof. Dept. of ECE
SoE-DSU, Bengaluru



Signature of the Dean
Dr. A Srinivas
SoE-DSU, Bengaluru



Signature



Signature