

Resume of Dr.V.K.Hariharan, Former Deputy Director, URSC, ISRO

1	Name	Dr. V. K. Hariharan
2	Name of DOS/ISRO Centre	U R Rao Satellite Centre (URSC) earlier called as ISRO Satellite Centre (ISAC), Bangalore
3	Designation & Pay Level as on date of retirement	Outstanding Scientist (OS) Pay Level: Level-15
4	Functional Designation at the time of retirement	Deputy Director – ICA (Integration & Checkout Area), URSC, ISRO
5	Age as on 01.01.2023	62 Years
6	Educational Qualification	B. Sc. (Applied Science), TCE, Madurai, 1981 B. Tech.(Electronics Engg.), MIT, Madras, 1984 M. Tech. (Commun. Systems), IIT, Madras, 1986 Ph. D (E & ECE), IIT, Kharagpur, 2003
7	Technical Skill Sets	<ol style="list-style-type: none"> Assembly, Integration & Testing (AIT) of Satellites, pre-launch activities at launch base Spacecraft EMI / EMC / ESD Analysis & Testing, both subsystem & system levels Spacecraft flight harness realisation Ground Support Equipment realisation for spacecraft AIT activities End to End radiated mode testing of spacecraft payload with mainframe in Compact Antenna Test Facility (CATF) Establishment of Facilities (RF Shielded Anechoic Chamber, EMI/EMC Lab., CATF and AIT Clean Room) required for spacecraft AIT activities Mentoring of vendor teams towards Spacecraft AIT activities
8	Years of Experience in ISRO	35 years, 4 months
9	Awards	<ol style="list-style-type: none"> ISRO Team Excellence Award – 2009 for Oceansat-2 Spacecraft realisation Best EMC Engineer Award – 2010 from Society of EMC Engineers India (SEMCEI) ISRO-ASI Award-2016 and ISRO Merit Award - 2018
10	Guidance to Research Leading to Ph.D Degree	Ph.D - Completed -3 (2 from IIT-KGP, 1 from IIT-B) - Ongoing - 3 (IISc -1, IIT-M-1, VTU-1)
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13	Communication Address	250, Teachers Colony 5 th Main, 3 rd Avenue Koramangala Post Bangalore – 560 034
14	Present Designation	Director, Centre for Space Science & Technology & Professor of Practice, Computer Science Technology School of Engineering Dayananda Sagar University, Kudlu Gate Innovation campus, Hosur Main Road, Bangalore-560114
15	Present Responsibilities as Director, CSST, SOE, DSU	<ol style="list-style-type: none"> 1. To enable Students Satellite Programme (SSP) 2. Establishment of Facilities such as Clean Room, Checkout Lab, Ground Station etc., for SSP 3. Conduct of Orientation Training Programme on Satellite Technology 4. Conduct of Practical Training Programme to students using CANSAT and Class Room Model 1U Cubesat 5. Conduct of a 3 credit course for UG AE students on Satellite Technology 6. Indigenous design and development of mainframe cards for Cubesats of different configuration 7. Realisation of Flight Model Digitally Twin Satellite Payload for POEM (PSLV On-Orbit Experimental Module) Platform 8. Realisation of studentsats with industries collaboration and with DSU Students involvement: a). 3U Cubesat with ELINT payload, b). 6U Cubesat with EO payload, c) Microsat with SAR payload 9. Preparation of Master Document for Infrastructure Development at Harohalli Campus: a). SITE (Spacecraft Integration & Test Establishment) b). Space Astronomy Lab 10. Technical consultancy for Space related activities with aerospace industries through MoUs with DSU.



Photo of Dr. V.K.Hariharan

Bio-data of Dr. V.K.Hariharan, Former Deputy Director, URSC, ISRO

V.K.Hariharan received

1. B.Sc., (Applied Science) from Thiagarajar College of Engineering (TCE), Madurai in 1981,
2. B.Tech.,(Electronics Engineering) from Madras Institute of Technology (MIT) - Anna University, Madras in 1984,
3. M.Tech. (Communication Systems) from IIT-Madras in 1986 and
4. Ph.D. from E&ECE Department, IIT-Kharagpur in 2003.

He joined ISRO Satellite Centre (ISAC), presently named as U.R.Rao Satellite Centre (URSC), Bangalore in **January-1986** as Scientist/Engineer in Systems Integration Group (SIG).

He was involved in Spacecraft Configuration Study, EMI/EMC Analysis & Testing, Spacecraft Integration and Testing and launch base activities of several satellites. He held several positions (PE, PM, DPD, APD, SH, DH, GD and DD) at URSC and contributed in the fields of EMI/EMC and Assembly, Integration and Testing (AIT) of Spacecraft, towards realisation of many complex and advanced technology remote sensing, communication, navigation and scientific mission satellites for national needs. He has 35 years, 4 months of work experience with various responsibilities, in Spacecraft Assembly, Integration and Testing (AIT) domain.

He superannuated in the month of **May, 2021** as Deputy Director, Integration and Checkout Area (ICA), URSC, ISRO, after serving ISRO for three and a half decades. He has numerous publications (approximately 150) in various national and international Journals / Conference proceedings. Under his guidance, 3 research scholars have received Ph.D degrees (two from IIT-KGP, one from IIT-B) and currently three research works are in progress (one each in IIT-M, IISc, VTU).

He is the recipient of many awards including

1. **ISRO Team Excellence Award – 2009** for Oceansat-2 realisation,
2. **Best EMC Engineer Award – 2010**, Society of EMC Engineers India (SEMCEI)
3. **ISRO-ASI Award-2016** and
4. **ISRO Merit Award - 2018** for his contributions in spacecraft & related technologies and for Indian Space Programme (Refer Page 4/4).

Presently he is working as **Director, Centre for Space Science & Technology (CSST)** & as Professor of Practice, Computer Science Technology, School of Engineering, Dayananda Sagar University towards enabling students satellite programme in the University.

His E-Mail ID is: **vkhariharanisro@gmail.com**
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Contribution of Dr. V.K.Hariharan to ISRO's Satellite Programme

❖ Project Engineer- AIT-Electrical Integration (Launch Date)

1. IRS-P2 (15-10-1994)
2. IRS-P3 (21-03-1996)
3. IRS-P4 (Oceansat-1) (26-05-1999)

❖ Project Manager- AIT-Electrical Integration

4. TES (Technology Experimental Satellite) (22-10-2001)
5. INSAT-3E (28-09-2003)
6. IRS-P5 (Cartosat-1) (05-05-2005)

❖ DPD, AIT

7. Oceansat-2 (23-09-2009)
8. GSAT-8 (21-05-2011)

9. APD, RESOURCESAT-2 (20-04-2011)

Designation	Responsibilities	Period	Satellites Realized	Total
As DH, GID	AIT of all GEOSATs	Aug. 2011 to Sept. 2015	GSAT-10, IRNSS-R1A, INSAT-3D, GSAT-7, GSAT-14, IRNSS-R1B, IRNSS-1C, GSAT16, IRNSS-1D, GSAT-6, GSAT-15	11
As GD, SIG	AIT of all Satellites	Oct. 2015 to July 2016	IRNSS-1E, IRNSS-1F, IRNSS-1G, GSAT-18, INSAT-3DR, Cartosat-2C	6
As DD, ICA	AIT & Ground Checkout testing of all Satellites	Aug. 2016 to March-2020	Scatsat-1, Resourcesat-2A, GSAT-17, Cartosat-2D, INS-1A, 1B, GSAT-9, GSAT-19, Cartosat-2E, IRNSS-1H, Cartosat-2F, Microsat -TD, INS-1C, GSAT-6A, IRNSS-1I, GSAT-29, GSAT-7A, HYSIS, GSAT-11, Microsat-R, GSAT-31, EMISAT, RISAT-2B, Chandrayaan-2 (OLR), Cartosat-3, RISAT-2B R1, GSAT-30	27
		April-2020 to May2021 (S/Cs in advanced Stage of realization)	GSAT-12R, RISAT-2BR2, GISAT-1, RISAT-1A, INS-2TD, GSAT-24, Microsat-2A, Oceansat-3, Chandrayaan-3, XPOSAT, INSAT-3DS, GSAT-20, GISAT-2	11 LAUNC-HED TILL DATE

Total number of Satellites realized = 64