

RAGHAV K

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Education

2022-2023	THE MASTERS' UNION - PGP in Technology & Business Management Awarded Karthik Ramanna 50% Merit Scholarship for Education; Vice-President, SpaceTech Club Established Berryly Superfoods Dropshipping business & generated 50k+ revenue in 5 weeks	Gurgaon
2010-2014	INDIAN INSTITUTE OF SPACE SCIENCE & TECHNOLOGY (IIST) Bachelor of Technology, Aerospace Engineering; CGPA: 6.95/10 (Top 34% - 22/65) Secured full Educational & Residential Scholarship (Top 1% throughout India every year) Tech fests - Winner in Machinist, All terrain vehicle; Cultural fests - Creativity Team Coordinator	Trivandrum
2008-2010	NARAYANA COLLEGE OF SECONDARY EDUCATION Class 12 (State Board) - 94.4%; (AIEEE, IIST, EAMCET - Secured in top 1%) Awarded with full Educational Scholarship for two years of Secondary Education	Visakhapatnam
Till 2008	JAWAHAR NAVODAYA VIDYALAYA (JNV), KOMMADI Class 10 (CBSE): 94%; (Top 4% - Rank 3/80 in School); Earned full Educational & Residential Scholarship (top 2% entries)	Visakhapatnam

Experience

2022–Present (Part-time)	Space-tech Consultant • Consultation for feasibility study of a Private Spaceport project for an upcoming Start-up	Gurgaon
2014 – 2022	INDIAN SPACE RESEARCH ORGANISATION (ISRO) 2014-2018: Scientist – SC & 2018-2022: Scientist -SD • Managed a team of 20+ members for ~50% of ISROs total rocket launches for preparation of Solid & Liquid Stages of PSLV, GSLV Mk II & GSLV Mk III Rocket Launches & experimental missions • Optimized Process saving ~33% time & ~50% manpower cost on liquid Stages activities for PSLV & GSLV • Developed rocket testing equipment, Inventory Management, Procurement & Vendor Management Special Projects: • Carried out Project studies & led teams on Human Space Program Missions - Pad Abort Tests & Recovery, Reusable Launch Vehicle Technologies, Semi-Cryogenic Technologies for core stages • Carried out feasibility study of testing & launching Crew Escape Systems & Landing experiments with liquid stage Capacity Expansion Projects: • Projected man-power & facility occupancy plan & budget estimation for ISRO's Privatisation Plan for PSLV Missions • Devised project plan (~2700 cr) for Seamless preparation of stages increasing launches by 233% by 2030 at Sriharikota • Project conceptualized & budget estimated (~60 cr) to increase capacity by 200% for liquid stages facility Space Awareness & Outreach Programs • Managed & Conducted programs, Space-On-Wheels Exhibitions at Schools & Colleges across 4 states ◦ World Space Week (~2cr budget) every year & Vikram Sarabhai Centenary Program (~4.5 cr budget) • Formulated initial plan for ISRO's Yuvika -Young Scientist Program which got implemented in 2022	Sriharikota

Publications

LAMSYS National Conference, Sriharikota
• Paper on “Simulation of Flow phenomenon inside bell & dual divergent nozzles”
• Paper on “Jet deflector Configurations Study for Pad Abort Tests of Human Space Program”

Leadership Roles

- Team Lead for Pad Abort Test & Recovery missions of Human Space Program at Satish Dhawan Space Centre (SDSC)
- Team Manager for a sub-committee & Convener for Project on seamless preparation of rocket stages at SDSC
- Team Organizer for World Space Week & Vikram Sarabhai Centenary Programs across 4 states
- Creativity Team Coordinator for Dhanak Cultural fests in Indian Institute of Space Science & Technology (IIST)
- Sergeant of NCC Batch 13(A) Battalion of 100+ members, JNV Visakhapatnam

Skills

Technical: MATLAB, Solidworks, ANSYS, Scilab, MS Office, Power BI || Basics: C language, HTML & CSS
Self-taught: Capital Market Technical & Fundamental Analysis, Trading derivatives

Community

Raised 5 lakhs & Coordinated Food, Water supply to **~12000 Migrants, 50+ families & an Orphanage** during COVID.
Fostered Lifestyle Change Initiative by running **Cycling Club** with 30+ team members for 3+ years.

Hobbies

Long Cycling(>100kms), Nature Photography, Playing Strategic Board Games

Personal

Writing a book: **“As Simple as Rocket Science”** | Working towards **“Getting Healthier, Wiser, Wealthier & Happier”**