



Burle Koushi Priyatham

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Summary

Strategic leader skilled in complex problem-solving and multi-stakeholder collaboration with critical national impact programs. Adept in driving transformative operational improvements and generating significant cost savings through innovative solutions and data-driven analysis.

Professional Experience

Scientist/Engineer 'SD' | Indian Space Research Organization | Sriharikota

- Spearheaded the end-to-end design and development of Solid rocket engines in launch vehicles, reducing critical component failure rates by 25% through data-driven performance analysis and design optimization.
- Led a cross-functional team of 20+ technicians and assistants, optimizing resource planning and team coordination to deliver mission-critical projects ahead of schedule and meet key organizational goals.

Operational Enhancement

- **Led a strategic project** to integrate alternative raw materials for solid rocket engine production, generating savings of **50 lakhs** annually while ensuring sustained product performance and reliability.
- Designed and deployed specialized machinery (Solid rocket engine production), cutting lead time by **25%**, thereby increasing production efficiency and market responsiveness.
- Drove a strategic initiative leveraging advanced analytics for proactive management, resulting in **₹15+ crore** in cost savings and enhanced system reliability.

Project Engineer

- Drove the expansion of the Solid engine production Project, increasing ISRO's Polar Satellite Launch capacity by 100% (from **6 to 12 launches** per year) to meet growing satellite demand.
- Managed end-to-end production of solid rocket stages, ensuring **100%** defect-free delivery for critical ISRO missions such as **Chandrayaan-3 and Aditya L1**, contributing to the seamless execution of high-stakes national space programs.
- To avert single-point production failure and optimize production continuity, secured and integrated a standby autoclave (Rs 10Cr+ investment), significantly improving overall lead time reliability.

Technology Development

- Drove innovative research to optimize rocket inert weight, resulting in a **5%** increase in Launch vehicle payload capacity, enhancing revenue from Rocket launch.
- Spearheaded India's space capability growth, instrumental in human-rating LVM III (Gaganyaan) and enabling the commercial SSLV's launch for market expansion.
- Enhanced supply chain resilience by diversifying the vendor base for niche product manufacturing, realizing annual savings of over **Rs 3 Crore** while mitigating single-supplier risks.

Stakeholder Engagement

- Led a 20-member team in orchestrating India's first National Space Day, an event that motivated **8,000+** students and elevated national engagement with space exploration.
- Convened and managed India's Space Port Visitor Management Team, coordinating complex logistics and fostering collaboration among diverse stakeholders to deliver flawless visitor experiences and uphold institutional reputation.
- Successfully orchestrated a world space week event, attracting diverse audience of around **10000+**.

Education

Bachelor of Technology (Aerospace Engineering) – Indian Institute of Space Science and Technology | Trivandrum

Accomplishments and Awards

- Secured the Merit scholarship at IIMA awarded to **26 out of 157 students** in the MBA (PGPX) batch
- **Performance Rating:** 'A+' performance rating for 5 consecutive years (ISRO)
- **AP State Govt Scholarship:** Awarded Scholarship for Higher Education by AP State government for outstanding academic achievement in Class XII
- **Academics:** Secured **99.57** percentile in JEE Main 2015 (AIR 3608 out of 12.34 lakh candidates).
- **DOS Scholarship:** Awarded Merit Scholarship of **Rs 4L** funded by the Department of Space based on academic excellence.
- **Publications:**
 - "Published a paper, "Film cooling performance and flow field of compounded double jet holes with trench" (Springer Heat and Mass Transfer journal).
 - "A Novel Double-jet Configuration for Gas Turbine Film Cooling" (7th international and 45th national FMFP conference).

- **DRDO Internship:** Generated a detailed report on “Aerodynamic heating and ground simulation test” as part of an Internship at DRDO, Hyderabad.

License & Certifications

Lean Six Sigma Green Belt, KPMG

Integrated Design of Space Vehicles, ISRO

Co/Extra-curricular

IIST Alumni (SHAR Chapter) |Treasurer (2021 – 2023)

- Mentored 25 students enrolled at IIST under the Alumni initiative, for constant guidance in academic and personal endeavors.
- Organized and hosted webinars with CEOs of leading companies on space technology and entrepreneurship, attracting 400+ participants from across India.

Executive Member| Bhattiprolu Friends Association (2019-2025)

- Organized COVID-19 relief efforts by distributing essential groceries to **50+ families** and led a tree plantation drive with 200 saplings to improve community spaces.
- Mobilized **₹10+ lakhs** in community funding to construct vital public infrastructure and transform village common areas, working in coordination with local authorities.
- Expanded educational access by establishing a knowledge hub offering free internet, tutoring, and mentorship to underprivileged children in the village.

Head Publicity| Conscientia (2018)

- Spearheaded a **3-tier team of 25** for online & offline publicity of annual technical & astronomy fest.
- Garnered 11-year peak footfall of **1000+** by onboarding 30+ campus ambassadors of 5 states & UT.