

# SHRI SANJAY I S

Research Trainee at AeroInSpacetech | PSG TECH - UG 2nd Year | Mechanical Engineering |

Aerospace Enthusiast

Tiruppur, Tamil Nadu, India

## Contact Information:

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 [LinkedIn](#)

## Summary:

Aspiring rocket scientist pursuing a Bachelor of Engineering in Mechanical Engineering. Passionate about aerospace, rocket propulsion systems, and thermal sciences. Eager to expand knowledge and contribute to the future of space exploration and sustainable propulsion technologies.

## Experience:

### AEROIN SPACETECH PRIVATE LIMITED

- Research Trainee&Content Creator (Nov 2023 - Present)
  - Writing and curating content on current space sector developments.
  - Conducting research on propulsion systems and aerospace advancements.
- Research Trainee (Internship) (June 2024 - July 2024)
  - Conducted 2D performance analysis on an Aerospoke nozzle.
  - Created and simulated nozzle contours for optimized propulsion efficiency.
- Offline Intern (Nov 2023 - Dec 2023)
  - Designed and fabricated a 1U CubeSat using 3D printing technology.
  - Gained knowledge in rocket propulsion and various rocket types.

### SAAM GEARS

- Summer Intern (April 2023 - May 2023)
  - Acquired hands-on experience in gears/shaft manufacturing and production processes.

### SIEGER SPINTECH EQUIPMENTS PVT. LTD

- Mechanical Engineering Intern (April 2023)
  - Gained insights into textile machinery, automated storage solutions, and mechanical handling systems

## Education:

PSG College of Technology

- Bachelor of Engineering (Lateral Entry) - Mechanical Engineering (Aug 2024 - Aug 2027)
- Higher National Diploma - Design and Drafting (May 2021 - May 2024)

## Technical Skills:

- ✓ Mechanical Core Subjects Knowledge
- ✓ Aerospace Engineering
- ✓ Thermodynamics
- ✓ Rocket Propulsion
- ✓ CAD Design & Simulation
- ✓ Thermal Systems Analysis

- Road Safety Patrol Cadet
- IEEE Media Team Member
- Member - Aeronautical Association
- Member - Aero Modelling Club
- Youth Outreach Club Media Photographer
- Student Member - Indian Society for Technical Education (Nov 2024 - Present)

## Projects:

- Design and Fabrication of 2D Plotter
- Design of the Structure of CubeSat
- Design and Fabrication of Nozzle Rocket
- In Progress: Rover Mechanical Lead
- RC Plane Building
- New quick bill System for Canteen Fresh Juice Using AI and Machine Learning

## Memberships & Extracurricular Activities:

- Member - PSG Space Centre (Dec 2024 - Present)
- Master of Ceremonies (MC) for college events
- National Service Scheme (NSS) Volunteer

## Future Aspirations:

- Advance research in sustainable rocket propulsion and thermal management.
- Contribute to next-generation aerospace technologies focusing on environmental sustainability.
- Innovate fuel-efficient and low-emission propulsion systems for planetary exploration.

## Publications&Research:

- 📖 Exploration of Various Types of Electric Propulsion Systems and Their Advantages in High-Powered Rocketry
- 📖 2D Comparative Performance Analysis on a Numerically Computed Aerospoke Nozzle Plug
- 📖 Analysis of Testing Passive and Active Thermal Control Strategies for Satellites
- 📖 Green Go Environment: Fuel Combinations for Reducing Toxic Emissions in Rocket Propulsion

## Honors & Awards:

- 🏆 Best Project Award of the Department
- 🏆 Rank Holder (Semester 1 to 3)

