Pranjali Digambar Main

Thane, Maharashtra, India

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Education

Indian Institute of Space Science & Technology, Thiruvananthapuram **2025 – 2027**
M.Tech in Materials Science and Technology, Dept. of Chemistry : CGPA - 9.0 *Kerala, India*

Amity University Mumbai **2021 - 2025**
Bachelor of Technology (B.Tech) in Aerospace Engineering : CGPA - 8.04 *Mumbai, Maharashtra*
Minors in Fine Arts

Interest

- Materials
- Research & Development
- Structural Analysis
- Composites
- Polymers
- Propulsion Systems
- Rocket Propellants
- Modelling & Simulation
- CFD

Experience

Feynman Aerospace **July 2024 – Nov 2024**
FEA/CFD Trainee and Intern

- Applied FEA and CFD for structural, thermal, and aerodynamic analysis
- Developed simulation models with optimized meshing and boundary conditions
- Analyzed stress, heat transfer, and airflow for performance evaluation.
- Gained expertise in engineering simulations and technical reporting

Godrej Aerospace, Vikhroli **July 2023 – Aug 2023**
Materials Lab Intern

- Project Title : Laboratory Testing Output Improvement
- Improved laboratory testing efficiency by identifying process bottlenecks and optimizing workflows
- Implemented automation strategies to reduce manual errors and enhance data management
- Conducted quality control measures like equipment calibration and inter-laboratory proficiency testing

Skills

Software: Ansys Workbench, AutoCad, Fusion 360, OpenVSP, SolidWorks, MS-OFFICE, MATLAB, Simulink

Soft Skills: Adaptability, Collaboration, Problem Solving

Languages: Hindi, Marathi, English, French

Achievements and Awards

* FOSSEE Scilab Hackathon - Second Prize - Apr 2025
* Project selected for Global Qualifier, NASA Space Hackathon – Oct 2024.
* Qualified NPTEL Courses – Rocket Propulsion, Aircraft Stability and Control, Aircraft Performance

Projects Undertaken

* Modelling of acoustic noise due to Sonar signal (B.Tech Project, 2025):
* Autonomous Drone Navigation in GPS-Denied Martian Terrain (IROC-U, 2024):