ADARSH RAJPUT

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EDUCATION

B.Tech. Aerospace Engineering

Graduating May 2026

VIT Bhopal University, Sehore, MP

8.44 CGPA

Relevant coursework: Fluid mechanics, Aerospace Structures, Aerodynamics

TECHNICAL SKILLS

Design & Modeling Tools: Fusion 360, Simscale,

Programming: Python, MATLAB **Tools & Productivity:** Microsoft office

Certifications: NPTEL Aircraft Design (April 2024), Overview of Space Science and Technology ISRO START (August

2023), NPTEL Computational Fluid Dynamics (May 2025)

WORK EXPERIENCE

AEROGO INDIA, Bangalore:

April 2024

- Attended a 2-day workshop by Aerogo India on RC Plane Design and Fabrication and gained hands-on experience in RC vehicle design, assembly, and operation.
- · Learned principles of flight and their application in real-world RC aircraft.
- Independently built and flight-tested an RC aircraft using workshop-acquired skills.

ACADEMIC PROJECTS

Infrared Signature Suppression System for Helicopters

Winter 2024

Collaborated in a team of three to design model of Mi-17 helicopter (Fusion 360).

- · Developed team schedule, including quality measurement for each major milestone.
- Designed and analyzed a spectrally selective solar absorber and thermal infrared suppression system using hollow cylindrical microstructures.
- Modeled a thermal IR suppression system for the Mi-17 V5 using Fusion 360 and meshed over 500,000 elements for thermal FEA.
- Researched and compared IR countermeasure techniques, evaluating 6 existing technologies, including film-cooled tailpipes and black hole occluders (BHO).

Self-Balancing gyroscopic cycle

Fall 2024

worked in a team of 9 to design and develop a self-balancing cycle.

- Designed a fully detailed 3D model of a self-balancing gyroscopic cycle, incorporating key components such
 as structural frame, wheels, handlebar, and chain sprocket system. (Fusion 360)
- Applied advanced CAD methodologies to optimize structural balance, mass distribution, and aesthetic coherence in the prototype design.
- Conducted component-level finite element analysis (FEA) for stress evaluation and structural integrity validation.
- Led CAD modeling of chassis and drivetrain assembly using Fusion 360; validated design with component-level FEA.

ACTIVITIES

- Participated in the Pre-Conference Workshop on Gas Turbine Technologies as part of the International Conference on Aerospace Sustainable Technologies and Innovations (ICSATI 2025)
- · Presented a technical poster during the same conference