PIRANAVAN R

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PROFESSIONAL SUMMARY

Aerospace engineering student with a focus on CAD design, specializing in 3D modeling and mechanical design using Autodesk Fusion 360. Experienced in UAVs, CubeSats, and CanSats design, with a strong foundation in optimizing designs for performance. Skilled in aircraft maintenance and sensor integration, eager to apply CAD expertise to innovative engineering solutions.

EDUCATION

B Tech (Hons.) Aerospace Engineering with Specialization in UAV
Periyar Maniammai Institute of Science and Technology, 2021-2025

EXPERIENCE

Research Intern | Aeroin SpaceTech Private Limited
JUNE 2024 – JULY 2024

- Designed a 1U CubeSat and CanSat systems, including sensor integration (DHT11, Hall sensors).
- Conducted research on optical wireless data transmission, published a paper.

UAV Co-Pilot | Vimanna Labs India Private Limited
JANUARY 2024

- Assisted in UAV operations for agricultural fertilizer spraying, optimizing crop yields.

In-Plant Trainee | Vimanna Labs India Private Limited
JUNE 2023 – JULY 2023

- Gained knowledge of airport management, safety protocols, and aviation operations.

In-Plant Trainee | Agni Aero Sports and Adventures, Jakkur Aerodrome
JUNE 2023 – JULY 2023

- Performed pre-flight checks and gained hands-on experience.

PROJECTS

Coconut Maturity Detection using UAV

- Developed a system for detecting coconut maturity using raspberry pi and python, integrated with a UAV platform.
- Designed and programmed the system to analyse images for maturity levels, improving harvesting efficiency.

SKILLS

- Autodesk Fusion 360
- Ansys
- 3D Printing
- AutoCAD
- Python
- CATIA
- Arduino IDE

PUBLICATION

Experimental Study of Optical Wireless Data Transmission in CubeSats
International Journal of Scientific Research in Engineering and Management (IJSREM), Vol. 8, Issue 7, July 2024.

CERTIFICATION

- Industrial Automation | CETAT, PMIST | July 2022
- Basics of Aeromodelling | Vimanna Labs India Private Limited | March 2023
- Python | GUVI | August 2023
- AutoCAD and CATIA | Sri Design CAD Technologies Solutions Private Limited | September 2023
- Space Surface Exploration Vehicle Course | Tenkasi Aerial Technologies | March 2024
- Bharatiya Antariksh Hackathon 2024 | ISRO & Hack2Skill | July 2024

CONFERENCES AND SEMINARS

- All India Seminar on "Trends in Aviation (Civil & Defense)"
- Workshop on "Artificial Intelligence: A Marvel's Perspective"