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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

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| * 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”