

AYUSH DASGUPTA

Kolkata, West Bengal

☎ +919337446036

✉ ayushdasgupta0@gmail.com

in [Ayush Dasgupta](#)

🔗 [AyushDasgupta21](#)

EDUCATION

Vellore Institute of Technology, Bhopal

2021 – 2025

Degree Name -B.Tech - Aerospace Engineering - **CGPA - 6.77**

Bhopal, Madhya Pradesh, India

COURSEWORK / SKILLS

- | | | | |
|--------------------------------|--------------------------------|-----------------|------------------|
| • Data Structures & Algorithms | • IoT Based projects | • OOPS Concept | • SQL |
| • Electrical design | • Computational Fluid Dynamics | • Power BI | • Data Analytics |
| | | • Video Editing | |

INTERNSHIP

STARLAB [🔗](#)

03-23 – 04-23

Role Name : Avionics Engineer

Surat, Gujarat, India

Project: Design and Development Of 1U CubeSat

- Conceived, created, and assembled a 1U CubeSat for determining temperature and altitude.
- The Cubesat can go to a distance of 100km and above
- Fusion 360 software was used for 3D modeling and simulation of the CubeSat. Eagle software is used to design circuits. Arduino IDE is used to code and integrate the electrical components of CubeSat.
- [Report](#) [🔗](#)
- [Letter of Recommendation](#) [🔗](#)

PROJECTS

Design for Smart Glass Cleaning Robot [🔗](#) | [Fusion 360](#) 11-2023

- Developed and launched a cutting-edge Smart Glass Cleaning robot that autonomously cleans windows of high-rise buildings,
- Increasing cleaning efficiency by 50 percent and reducing safety risks associated with manual cleaning
- Designed and tested 15+ models in Fusion 360 for a high-profile client, resulting in a 30% reduction in design iterations and ultimately expediting project completion by three weeks ahead of schedule.

TATA Sales Dashboard [🔗](#) | [Data analytics](#), [Power BI](#), [Excel](#), [DAX](#)

12- 2024

- This Power BI project focuses on analyzing sales data for TATA to provide valuable insights into business performance, revenue trends, and key sales metrics.
- The interactive dashboard enables stakeholders to make data-driven decisions by visualizing key performance indicators (KPIs), customer behavior, and market trends.
- Sales Performance Analysis – Track revenue, profit margins, and sales trends over time .

Design and Development a 1U CubeSat [🔗](#) | [Fusion 360](#), [C++](#), [Arduino IDE](#), [Fusion Eagle](#)

06-2023

- Conceptualized, Designing and Fabrication for building 1U CubeSat which determines the temperature and altitude.
- CubeSat can reach up to a range of 100km above
- Role - Avionics Engineer

TECHNICAL SKILLS

Languages: Python, Java, , C++, HTML, CSS, SQL

Developer Tools: VS Code, Android Studio, Jupyter Notebook, Fusion Eagle, Arduino IDE, My SQL Workbench, Power BI, Tableau, Excel

Technologies/Frameworks: GitHub, Git, Flutter

More Extra Tools Knowledge: DaVinci Resolve, Filmora, Blender

EXTRACURRICULAR

- Finalist in Smart Indian Hackathon 2023 [🔗](#)
- Finalized and polished a series of 8 short films, applying advanced editing techniques that secured recognition in two local film festivals, enhancing both visibility and professional credibility in the industry.