DODDIGARI SAI CHARAN

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Education

Malla Reddy College of Engineering and Technology 2023 – 2027
B.Tech in Aeronautical Engineering; ***CGPA: 7.1/10.0*** *Hyderabad, Telangana*

Skills Summary

Software & Tools: ANSYS Fluent, ANSYS APDL/Mechanical, SimScale, SolidWorks, Fusion 360, AutoCAD, MATLAB/Simulink, Python
Engineering Concepts: Aerodynamics, UAV & Fixed-Wing Design, CFD Analysis, Finite Element Analysis (FEA), Aircraft & RC Aeromodelling, Composite Materials
Research Interests: Experimental Aerodynamics & Wind-Tunnel Testing, Unsteady Flow Analysis, Renewable Energy & Sustainable Aerospace
Soft Skills: Leadership, Communication, Public Speaking, Team Collaboration, Time Management, Presentation Skills

Experience

Vayudhwaja-M Aerospace Pvt. Ltd. On-site
UAV Design Intern *Hyderabad, Telangana*
- **Engineered** UAV systems focusing on **aerodynamics** and **structural components**, reducing prototype development time by **15%**.
- **Applied** practical **robotics** and **drone technology** to successfully execute **3+** on-site projects and technical evaluations.

Skyline Space Remote
Drones and UAVs Intern *Hyderabad, Telangana*
- **Analyzed drone operations** and **UAV systems**, improving flight system efficiency by **10%** for emerging technologies.
- **Collaborated** with the engineering team to integrate **UAV applications**, optimizing **flight systems** across **5+** test flights.

Kodacy Remote
Rocket Technology Intern *Hyderabad, Telangana*
- **Evaluated rocket technology principles** and applied them to **3** practical **aerospace applications**.

Projects

Hybrid Renewable Energy Fixed-Wing UAV — Design & CFD Analysis | *ANSYS Fluent, SolidWorks, MATLAB*
- **Developed** a **fixed-wing UAV concept** integrating **solar energy harvesting** to increase **flight endurance** by **25%**.
- **Performed battery sizing** and **endurance calculations**, validating design parameters for a **4-hour** flight time.
- **Created CAD models** and spearheaded **CFD-based aerodynamic analysis**, optimizing aerodynamic efficiency by **15%**.

Leadership, Outreach & Achievements

- **Leadership:** Organized Sugar Rocket Motor Workshop | **Outreach:** IIC school program on RC planes & flight concepts | **Awards:** Best Student Coordinator (2024), Best Leader – Debate (2025), Smart India Hackathon Participant (2024–26).

Certifications

UAV Design & Drones | Robotics and Drones | RC Plane Workshop | Composite Materials

Volunteering

- Event Coordinator – College Fresher's Party | Volunteer – College Technical Fest | Anirudh Music Concert | The Djemde Circle