ASHISH BADATYA

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PROFESSIONAL SUMMARY

Mechanical Engineering undergraduate with hands-on experience in engineering design, modeling, and analytical tools, supported by a strong foundation in core mechanical subjects. My expertise spans across engineering analysis, simulation, aerodynamics and aircraft design. Deeply inclined towards project planning, collaborative teamwork, and problem solving. Eager to apply technical knowledge in practical environments.

EDUCATION

B.Tech in Mechanical Engineering CGPA: 9.19 – **Ongoing**
Veer Surendra Sai University of Technology, Burla, Odisha
Intermediate – Dr. A.N.K. DAV Public School, Rourkela, Odisha (CBSE) Percentage: 93.17% – **2023**
Matriculation – St. Gregorios School, Rourkela, Odisha (ICSE) Percentage: 92% – **2021**

PROJECTS

Fixed-Wing UAV with Payload Drop

- Part of a 10-member team that developed a **4.5 kg** UAV that competed in **SAE DDC 2026**
- Performed aerodynamic analysis of various airfoils and wing shapes using **XFLR5**
- Evaluated various wing shapes, conducted full-aircraft aerodynamic analysis, and performed performance optimization using **XFLR5**.
- Carried out static structural analysis to minimize wing deflection using **ANSYS**

TOOLS & SOFTWARES

- **Design & CAD:** SolidWorks
- **Analysis & Simulation:** ANSYS Structural and CFD, XFLR5
- **Programming:** Python

SKILLS

- **Technical Communication & Teamwork**
- **Leadership**

INDUSTRIAL EXPOSURE

Industrial Training – Larsen & Toubro (L&T), Kansbahal Works

- Gained hands-on exposure to assembly operations within a manufacturing unit
- Gained insights into applications of heavy mining machinery and observed its assembly and quality testing
- Learned on-site working practices, safety protocols, and industrial workflows

POSITIONS OF RESPONSIBILITY

AeroTech (Aeromodelling Club of VSSUT,Burla)
Captain – Regular Class

- Led a team of 10 members to develop a **4.5 kg** UAV to compete in **SAE DDC 2026**

Core Member – Aerodynamics Domain

- Involved in aerodynamic analysis, airfoil selection, and design of fixed-wing UAVs

ACHIEVEMENTS

- Led a team that secured **AIR-1** in **Best Design Report Category** in SAE DDC 2026
- Part of the team that secured **AIR-5** in the **Best Innovation Category** at SAE DDC 2025
- Winner at Block-Level Drawing Competition conducted by **Samaj Newspaper**, Odisha