

Vikas Mhetre

(Fresher)

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OBJECTIVE :

Aspiring Aeronautical Engineer with hands-on experience in UAV design and prototyping. Skilled in aerodynamic analysis, stability control, and flight dynamics simulation. Seeking to leverage my technical expertise and project management abilities to contribute to innovative aerospace projects and advance my career in aeronautical engineering.

EDUCATION :

Educational Qualification	Percentages / CGPA	Passing Year	Board / Institution
B.Tech (Aeronautical Engineering)	6.27 (Second Class)	2024	Annasaheb Dange College of Engineering and Technology Ashta
HSC	62.34	2020	Shree Mahadev Vidyalaya Jr. College Dhanegaon
SSC	80.80	2018	Shree Mahadev Vidyalaya Dhanegaon..

ACADEMIC PROJECTS :

MINI PROJECT:

Project Title: Modeling and Development of Non-Vectored Tail-Sitter UAV

Description:

Developed and modeled a non-vectorized tail-sitter unmanned aerial vehicle (UAV). The project involved designing the aerodynamic structure, creating simulation models, and performing stability and control analysis. Successfully implemented and tested the UAV prototype, demonstrating effective vertical takeoff and landing (VTOL) capabilities without the need for vectored thrust. The project showcased skills in UAV design, simulation, and hands-on prototyping.

MAJOR PROJECT :

Project Title: Development and Testing of a Non-Vectored Tailsitter UAV

Description:

Led the development and testing of a non-vectorized tailsitter UAV, focusing on vertical takeoff and landing (VTOL) capabilities without vectored thrust. The project included defining objectives, conducting research, creating and evaluating conceptual designs, and detailed engineering and manufacturing. Developed and tested a prototype, performing ground and flight tests to ensure stability, control, and performance. Demonstrated expertise in UAV design, aerodynamics, and experimental validation, resulting in a successful and optimized UAV prototype.

SKILLS :

- UAV Design
- Stability and Control Analysis
- Prototyping and Fabrication
- Flight Dynamics Simulation
- Research and Data Analysis
- Problem-solving and Critical Thinking

Tools and Software:

- CAD Software (e.g., SolidWorks, AutoCAD)
- Computational Fluid Dynamics Software (e.g., ANSYS Fluent)
- Flight Simulation Software
- Prototyping Tools
- Testing Equipment

HOBBIES :

- Cricket
- Kabaddi
- Gym

LANGUAGES :

- Marathi
- Hindi
- English