Vidhanshu Jadhav

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Summary

An aspiring aeronautical engineer, Engineering professional with a focus on Research and Development, structural design, and simulation, skilled in CAD, CFD, and FEA for solving real-world engineering problems.

Experience

- **FACC Solutions Pvt Ltd [🌐]** *Jan 2025 - May 2025*
  Intern Pune
  - Worked on the legacy Embraer project, gaining hands-on experience in the qualification and design processes for business aircraft interiors.
  - Contributed to design documentation and supported engineering tasks aligned with certification standards.
- **Simulation Lab [🌐]** *July 2023 - Sept 2023*
  CFD Intern Pune
  - Gained hands-on experience with ANSYS Fluent, including mesh generation, boundary condition setup, turbulence modeling, and post-processing techniques.
  - Validated and simulated CFD results for aircraft wing-flap configurations.
- **TVS Shelar Automatives [🌐]** *July 2022 - Sept 2022*
  Intern Pune
  - Worked on electric two-wheeler vehicles, focusing on mechanical and electrical component issues.
  - Contributed to precision machining, quality control, and compliance with industry standards to ensure optimal performance and safety.

Education

- **MIT ADT University** *Oct 2021 - Jun 2025*
  BTech Aerospace Engineering Pune, Maharashtra
  - GPA: 7.6/10.00
- **Fergusson College** *Aug 2019 - Jun 2021*
  HSC - PCM Pune, Maharashtra
  - Grade: 85.00%

Projects

- **Computational Study of Aerodynamic Effects in MultiPropeller Distributed Propulsion Aircraft**
  Tools : Fusion 360,Onshape,ANSYS Aug 2024 - May 2025
  - Studied the effects of propeller-induced airflow on lift, drag, and pressure distribution across the wing.
  - Conducted CFD-based aerodynamic analysis of distributed propulsion configurations (2, 4, and 6 propellers) on a modified Maxwell X-57 aircraft model
- **The Pomodoro App** *[🐙]*
  Tools: Rust and TypeScript May 2024 - Jul 2024
  - Interactive Home Screen and built-in statical model for user activity based suggestion
  - Activity tracking in history page and Every data is store locally we do not store any data
- **Design And Structural Analysis of a Planetary Rover Wheel**
  Tools : Solidworks, ANSYS - Structure, Modal and Harmonic March 2024–May 2024
  - Conducted FEA analysis on a rover tire wheel to evaluate structural performance over lunar terrain using SolidWorks and ANSYS.
  - Optimized designs can improve durability and reduce mission planning time for interplanetary exploration.
- **CFD Analysis of Aerodynamic Parameters on different sweep angles on the missile**
  Tools : Solidworks, DATCOM ,ANSYS Jan 2024 - May 2024
  - Determined the best sweep angle with best Lift and Drag Coefficient
  - Compared the results of CFD with DATCOM software
  - Analyzed Pressure, Mach and Temperature Contours
- **Experimental and Computational Investigation on propeller for different velocity ranges**
  Tools : Experimental Setup, ANSYS Mar 2023 - Jun 2023
  - Experimental as well as computational results by using ANSYS Fluent for numerical analysis were compared.
  - The propeller was meant to be rotating at particular speed at which the aerodynamic and propulsion based parameters were calculated experimentally and theoretically

Patents and Publications

C=Conference, J=Journal, P=Patent, S=In Submission, T=Thesis

S.S Shilahar, Vidhanshu. S. Jadhav, Prof. Dinesh Kumar Bajaj, et al. (2025). **The Development of a New Generation Picosatellite for both Industry and Education**. *SSRN*

Vidhanshu Jadhav, et al. (2023). **Review Study on Thermal Characteristics of Bell Nozzle used in Supersonic Nozzle**.In *REST Journal on Advances in Mechanical Engineering* , pp. 4-14. Publisher. DOI: https://doi.org/10.46632/jame/2/1/2

Certifications

- **Quality Improvement and Management** *Feb 2025*
- **Design for Additive Manufacturing** *Feb 2025*
- **Foundations of User Experience (UX) Design** *Feb 2024*
- **Flight mechanics - The basis** *Feb 2024*

Additional Information

Languages: English, Hindi, Marathi, German