

PRANAV KARKERA

MIT, Manipal, Karnataka
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EDUCATION

Manipal Institute of Technology *2021 - Present*
B.Tech (Hons.) Aeronautical Engineering *CGPA: 9.02*
Relevant Coursework: Aerodynamics, Flight Dynamics, Gas Dynamics, Advanced Thermodynamics and Combustion, Fundamentals of Supersonic and Hypersonic Flows, Rocket Propulsion

EXPERIENCE

General Secretary, IE-Aerospace *August 2023 - Present*
Currently serving as the General Secretary/Treasurer of IE-Aerospace, Students' Chapter, Manipal.

PROJECTS

Aerodynamic Analysis of Transonic Compressor, MIT Manipal *October 2023 - Present*
Performance analysis of an axial flow compressor with asymmetric tip clearance in ANSYS CFX.

CFD Analysis of Morphing Wing, MIT Manipal *November 2022 - Present*
Simulating airflow around a morphing wing in OpenFOAM and comparing the aerodynamics results with that of a conventional wing.

ACTIVITIES

NACDeC Participant, MIT, Manipal *August 2023 - Present*
Currently participating in a national level year-long UAV design competition as member of a team from MIT, Manipal.

Technical Fest Core Committee Member, MIT, Manipal *October 2023*
Closely involved in organising multiple aviation-themed events organised by the club IE-Aerospace.

Aircraft Design Workshop, Feynmann Aerospace *February 2023 - February 2023*
Successfully attended a 4-weeks long workshop which included use of softwares like Ansys, Solidworks and XFLR for the purpose of Aircraft Design.

SKILLS

Programming Languages
C, Python, R

Software Skills
OpenFOAM, MATLAB, Simulink, CAESES, CATIA, Solidworks, ANSYS

Spoken Languages
English, Hindi, Tulu