



# Vedika Prabhu

MECHANICAL ENGINEERING STUDENT @ MIT, MANIPAL

## SUMMARY

A motivated Mechanical Engineering student at Manipal Institute of Technology with a strong passion for practical problem-solving in high-stakes environments. Backed by hands-on experience in mechanical systems design, analysis, and operations, particularly automation tools. Eager to contribute to your esteemed organization by applying my technical expertise in CAD, simulation, and root-cause analysis. Committed to continuous learning, operational excellence, and cross functional collaboration.

## EXPERIENCE

### 1) TECNIMONT, Mumbai

**Mechanical & Machinery Intern** Jun 2025 - Jul 2025

- Analysed mechanical design of pumps and compressors; worked closely with specifications and vendor documentation.
- Conducted engineering analysis with ANSYS Fluent; reviewed performance for fault detection and improvements.
- Interacted with cross-departmental teams (Machinery, Piping, Packaging) to streamline equipment workflows.
- Gained exposure to real-world maintenance practices and equipment uptime analysis.

## EDUCATION

### B.Tech in Mechanical Engineering

**Manipal Institute of Technology, Manipal** May 2023 - Present

GPA : 6.00

### 12th HSC

**Pace Junior College, Andheri** Mar 2021 - Mar 2023

PCMB: 69%

### 10th CBSE

**The Millennium School, Dubai** Jun 2015 - May 2020

92.2%

## PROJECTS

### R.U.G.V.E.D Systems

**Senior Mechanical Member** Mar 2025 - Present

- Leading the design and development of Defence robotics systems using CAD & ANSYS Fluent among other simulation tools for building drones, military tanks, and underground combat vehicles.
- Collaborated with cross-functional student teams to integrate AI, navigation, and control systems in robotic platforms.
- Participated in multiple inter-state Autonomous Robotics Competitions, including IVC (Intelligent Ground Vehicle Competition).

### I.E MECHANICAL

**Technical Committee Member** Nov 2024 - Present

- A Committee Member at IE Mech, a college Mechanical Club which focuses on hosting and propagating various softwares to solve several Mechanical challenges.
- Hosted workshops focusing on its implementation to enhance Aircraft Design and Analysis, for the junior students.

## CONTACT

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- 📍 Mumbai, Maharashtra
- in [www.linkedin.com/in/vedpb](http://www.linkedin.com/in/vedpb)

## SKILLS

- Computer Aided Design- AutoCAD, CATIA, Fusion 360
- MATLAB OnRamp, SimuLink
- Ansys Workbench, APDL
- MS Excel, PowerPoint, Word
- Analytical Skills

## LANGUAGES

English  
Hindi  
Marathi  
Arabic  
Konkani

## HOBBIES

- Dedicated my time as a Math and Science tutor through a non-profit organization on YouTube and actively participated in various COVID-related initiatives during the pandemic in my time with @helpinglittlegems.
- Contributed as a Junior Event Volunteer at university-level Hackathon events. Managed registration, technical support, and coordination between event teams and participants.
- Won numerous Inter-state and Intercollegiate competitions in Volleyball and Table Tennis
- Achieved the graded certifications for Drums and Vocals from Rock-School