



# PRADEEP M

## MECHANICAL ENGINEER

### CONTACT

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- TamilNadu, India

### EDUCATION

#### NIT Trichy

M.Tech Industrial Engineering and Management  
2025 - 2027

#### Government College of Engineering Thanjavur

B.E., Mechanical Engineering  
2021 - 2025

### SKILLS

- ANSYS
- SolidWorks
- AutoCAD
- MS Office
- Python Programming
- Lean Manufacturing

### LANGUAGE

Tamil ██████████  
English ██████████

### ABOUT ME

Industrial Engineering student and recent Mechanical Engineering graduate with hands-on CAD experience and strong design fundamentals, driven to apply analytical thinking, attention to detail, and a continuous learning mindset in engineering design and development roles.

### EXPERIENCE

Production Intern Jul 2024 - Aug 2024

#### OM Sakthi Industry

Managed structural steel girder fabrication documentation, preparing precise Bill of Materials (BOM) based on welding symbol analysis and standards, and accurately calculating material tonnage for client billing. Gained hands-on proficiency in the hot riveting process.

R&D Intern Jun 2023 - Jul 2023

#### NIT Trichy

Led team projects on miniature accelerometer design and impeller blade failure analysis using ANSYS during my internship at NIT Trichy, focusing on turbine blade failure modes and their impact

### ACHIEVEMENTS

- Mechanical Engineering Gold Medalist at GCE Thanjavur.
- Authored a paper in the International Journal of Research in Science and Engineering (IJRISE), titled "Using Finite Element Analysis to Determine the Sensitivity of a Triaxial MEMS Accelerometer."
- Cracked GATE 2024 and 2025.

### PROJECTS

#### Design and Analysis of Heat Pipe for EV with PCM:

Designed a PCM-heat pipe hybrid cooling system for a 94 Ah Li-ion cell, reducing peak temperature and improving thermal uniformity in batteries.

#### Failure Analysis of Gas Turbine:

Applied FMEA and ANSYS simulations to identify turbine blade erosion as a critical failure mode, leading to a redesign to eliminate the failure trend.