



SWARADA PANGU

Mechanical Engineering,
Manipal Institute of Technology

PROFILE

Mechanical Engineering undergraduate at Manipal Institute of Technology with hands-on experience in CAD modelling (CATIA, AutoCAD), structural analysis (ANSYS), and manufacturing processes. Skilled in composite fabrication and material characterization, with a strong interest in industrial engineering systems, thermal systems, and manufacturing operations. Possesses a basic understanding of thermodynamics, fluid mechanics, and heat transfer in industrial applications. Demonstrates strong teamwork, leadership, and problem-solving abilities through academic and extracurricular experiences.

- +91 9765081244
- spangu22@gmail.com
- Pune , Maharashtra , India
- Manipal , Karnataka , India

EDUCATION

2023-2027
BTECH - MECHANICAL ENGINEERING
Manipal Institute of Technology
Manipal , Karnataka
currently ongoing

2022-2023
STD XII
Pune , Maharashtra , India

2020-2021
STD X
Pune , Maharashtra , India

SKILLS

- Technical
CAD - CATIA, AutoCAD, Inventor
Analysis - ANSYS (FEA)
Concepts: GD&T, Manufacturing Processes, Composites , Materials Engineering.
- Relevant Coursework
Fluid mechanics
Manufacturing Processes
Strength of Materials
- Soft Skills
Teamwork
Communication
Problem solving

EXPERIENCE AND PROJECTS

- Internship Program - E-Cell IIT Roorkee and Wissensquelle**
 - Performed finite element analysis (FEA) on a sugar mill roller shaft using ANSYS to evaluate stress distribution under varying load conditions, identify critical stress regions, and validate structural integrity for safe operation.
- Manufacturing Fiber Reinforced Composites**
 - Fabricated carbon and aramid fiber reinforced composite laminates using vacuum bagging and resin infusion techniques; analyzed material behavior, structural performance, and manufacturing techniques relevant to industrial applications.
- UG Seed money grant recipient**
 - Secured a UG seed funding grant for the research project titled "Post-fabrication analysis and mechanical characterization of RTM-based Kevlar fibre laminates: Notch sensitivity under mechanical loading," gaining experience in experimental analysis, material testing, and technical documentation.

EXTRA CURRICULAR ACHIEVEMENTS

- Open-Water Swimmer & MIT Women's Swim Team Captain**
 - Open-Water Swimmer and Captain, MIT Women's Swim Team Represented MIT in intercollegiate competitions (MAHE, Revels, Den Den Sea Swim); developed leadership, discipline, teamwork, and time management through competitive training and team coordination.
- Organizing Committee member at Revels '24 - cultural fest of MIT**
 - Managed and executed the process for the category Certificates, Prizes and Judges, ensuring timely procurement, accurate participation, and smooth distribution to winners and participants.
- Amateur Radio Restricted Grade License holder and MIT HAM Club Member**
 - Holder of Amateur Radio Restricted License issued by the Government of India, authorizing operation of amateur radio equipment under prescribed regulations.