



## BRIEF SUMMARY

Mechanical engineering involves the design, analysis, and manufacturing of mechanical systems. It integrates principles from physics, mathematics, and materials science to develop solutions for industries like automotive, aerospace, energy, and manufacturing. Mechanical engineers work on CAD design, thermal systems, robotics, and structural analysis, using problem-solving and innovation to improve efficiency and functionality in machines, products, and processes, driving technological advancements and sustainable solutions.

## KEY EXPERTISE

Supply Chain Management CAD/CAM Fusion 360 ANSYS Critical Thinking Problem Solving Industrial Design  
Catia Time Management Leadership MS Office Project Management Skills

## EDUCATION

## MIT Academy of Engineering, Pune

2021 - 2025

B.Tech. - Mechanical Engineering | CGPA: 6.99 / 10

## Shri Shivaji Vidhya Mandir

2021

12<sup>th</sup> | HSC | Percentage: 75 / 100

## Mar Ivanious convent high school

2019

10<sup>th</sup> | SSC | Percentage: 63 / 100

## INTERNSHIPS

## Fluid Controls | Core Engineering

24 Jun, 2024 - 25 Jul, 2024

Associate Quality Assurance Engineer

During my internship at Fluid Controls, I assisted in the quality control department, where I inspected and tested components to ensure compliance with industry standards. I gained hands-on experience in monitoring production processes, analyzing data, and supporting quality assurance initiatives to enhance product reliability and performance.

## PROJECTS

## Double Pipe Heat Exchanger Single Pass

02 Jan, 2024 - 17 May, 2024

Mentor: Dr.Pramod Kothmire | Team Size: 7

Key Skills: Design, calculation analysis, ansys

Designed and optimized a single pass double pipe heat exchanger, enhancing thermal efficiency by facilitating effective heat transfer between fluids in concentric pipes, contributing to improved energy conservation and operational performance in thermal systems.

## Enhancement of safe metal cutting tool using computer vision

08 Sep, 2022 - 07 May, 2023

Mentor: Amol.J.Asalekar | Team Size: 3

Key Skills: knowledge about Raspberry Pi

"Utilizing computer vision technology enhances safety in metal cutting operations by detecting potential hazards and monitoring equipment in real-time. This abstract summarizes the integration of computer vision for safer and more efficient metal cutting processes."

## PUBLICATIONS / RESEARCH / WHITE PAPERS

## Enhancement Of Safe Machine Cutting Tool Using Computer Vision

23 Feb, 2023

IEEE(INCOFT) | Mentor: Prof.Amol J.Asalekar | No. of Authors: 6

Key Skills: IOT,CNN,Single Shot Detection(SSD),Image Processing

## SEMINARS / TRAININGS / WORKSHOPS

### "Geometric Dimensioning and Tolerancing "

19 Oct, 2023 - 19 Oct, 2023

**Institute Name:** MIT Academy of Engineering, Pune

**Key Skills:** Information About GD&T,Measurements

### Vehicle Dyamics Workshop

14 May, 2023 - 15 May, 2023

**Institute Name:** MIT Academy of Engineering, Pune

**Key Skills:** Automobile Things,Knowledge about Engines,Electric Cars Catia,Fusion360

## CO-CURRICULAR ACTIVITIES

- Blood Donation campaign

## EXTRA CURRICULAR ACTIVITIES

- Wrestling

## PERSONAL INTERESTS / HOBBIES

- Wrestling, Cricket, Travelling,

## PERSONAL DETAILS

**Gender:** Male

**Marital Status:** Single

**Current Address:** 71/1+2 Bandhu pream near master mind school, Krushna Nagar new sangvi pune-27, Pune, Maharashtra, India - 411027

**Emails:** aditya.tambe@mitaoe.ac.in , adityatambe8989@gmail.com

**Date of Birth:** 19 Aug, 2003

**Known Languages:** English,Hindi,Marathi

**Phone Numbers:** +91-7841892826, +91-7841892826