



## BRIEF SUMMARY

•I am a final year Mechanical Engineering student at MIT Academy of Engineering, Pune, maintaining a CGPA of 8.92. Proficient in AutoCAD, CATIA, and ANSYS, I contribute effectively to engineering projects. •During an internship at Parivartan Innovation Pvt Ltd, I specialized in converting petrol vehicles to electric, showcasing adaptability and innovative thinking. •Currently, at Meson Valves India Ltd, I play a pivotal role in the project and planning department for Special Meson Group, ensuring meticulous planning and adherence to quality standards in manufacturing crucial valves for "Indian Navy Warships". My skills set making me a passionate mechanical engineer poised for challenging roles.

## KEY EXPERTISE

Project Management   Mechanical Ansys   AutoCad   Engineering Calculations   ASME Standard   Mechanical Design  
Strength of Material   Technical Problem-Solving   Quality Control & Assurance   Valves Inventory   Technical Proficiency

## EDUCATION

<b>MIT Academy of Engineering, Pune</b> B.Tech. - Mechanical Engineering   CGPA: 8.92 / 10	2020 - 2024
<b>Government Polytechnic, Jalgaon, Jalgaon</b> Diploma   Diploma - Mechanical Engineering - Mechanical Engineering   MSBTE   Percentage: 92.77 / 100	2021
<b>Sarvajanik Vidyalaya, Asoda, Jalgaon, Jalgaon</b> 10 <sup>th</sup>   MSBSHSE   Percentage: 80.20 / 100	2018

## INTERNSHIPS

<b>Meson Valves India Ltd.</b>   Core Engineering Intern in "Project And Planning Department"	19 Feb, 2024 - Present
<b>Key Skills:</b> Project Management   Strategic Planning   Technical Documentations   Valves Manufacturing   Quality Control	
As an intern Special Meson Group at Meson Valves India Ltd, I am actively engaged in the project and planning department of the company. Meson Valves specializes in the manufacturing of a diverse range of valves like Ball, Butterfly, Gate, Globe, Check Valves & Strainers crucial for "Indian Navy warships".	
<b>Parivartan Innovations Pvt. Ltd.</b>   Core Electrical Engineering / Manufacturing Internship	01 Jun, 2023 - 31 Jul, 2023
<b>Key Skills:</b> Electric Vehicle Conversion   Battery Technology   Motor Controller   Environmental Impact   Charging Infrastructure	
During my Summer Internship at Parivartan Innovation Private Limited, I gained valuable insights into the conversion of petrol vehicles to electric vehicles. I acquired hands-on experience in the transformative process, contributing to my understanding of sustainable transportation solutions.	

## PROJECTS

<b>Multi-Purpose Agriculture Grass-Cutting Machine</b> Mentor: Dr. Prashant Jikar   Team Size: 4 Key Skills: Manufacturing Processes   Multifunctional Design   Agriculture Automation   Precision Farming   Project Integration	01 Aug, 2022 - 21 Dec, 2023
<b>Project Link:</b> <a href="https://drive.google.com/drive/folders/1ZBpL0D6LcDc_FtXA9US-cqykm5ro_i5r">https://drive.google.com/drive/folders/1ZBpL0D6LcDc_FtXA9US-cqykm5ro_i5r</a> In this project, we tried to do three operations at a time like grass cutting, solid fertilizer spreading, and spraying pesticides or fertilizer this application is a comprehensive approach to promoting healthy and productive plant growth. This project is designed to improve the overall health and yield of the plants by providing essential nutrients and proper maintenance through grass cutting. My group is collaborating on patenting our innovative approach in sustainable farming practices.	
<b>Tubing In Wall To Achieve Evaporative Air Conditioning</b>	01 Jan, 2023 - 14 Apr, 2023

**Mentor:** Dr. Pramod kothmire | **Team Size:** 3

**Key Skills:** CFD Analysis Heat Transfer

**Project Link:** [https://drive.google.com/drive/folders/1Mfe\\_rV-i8-74SI2H2BM\\_KunT9bHDBDnQ](https://drive.google.com/drive/folders/1Mfe_rV-i8-74SI2H2BM_KunT9bHDBDnQ)

This tubing in-wall evaporative air conditioning project involves the installation of a tubing system within the walls of a building to achieve effective and energy-efficient cooling using evaporative air conditioning. The system utilizes water evaporation to cool the incoming air, providing a natural and eco-friendly way to maintain a comfortable indoor environment.

### Battery Cell Testing Module

04 Apr, 2022 - 20 Jun, 2022

**Mentor:** Prof. B.R. Patil | **Team Size:** 4

**Key Skills:** Testing Monitoring Fault Detection

As the demand for electric vehicles increases simultaneously so In this module, we assess 25 electric vehicle cells simultaneously to distinguish between defective and functional ones, catering to the rising demand for electric vehicle batteries.

### Pendulum Operated Water Pump

01 Aug, 2020 - 11 Mar, 2021

**Mentor:** Prof. K.G. Patil | **Team Size:** 4

**Key Skills:** Innovation Design Cost-effective solutions Kinematics Pendulum Dynamics Manufacturing Operations

**Project Link:** <https://drive.google.com/file/d/1y9-rSdK6YJ12Tm-CZjOXNyBm4WqJAZbc/view?usp=drivesdk>

In my final year diploma project, I devised a pendulum-operated water pumping system inspired by Newton's third law. It efficiently utilizes pendulum motion to drive reciprocating action, offering a cost-effective, energy-efficient solution devoid of electricity. This innovation caters to remote areas, presenting a sustainable alternative for water pumping.

## ACHIEVEMENTS

- 2nd Rank Achiever In Board Exam.
- In 10th Standard 1st Rank Achiever in Technical Domain in Elements of EL. and EC. Technolog Subject.

## ASSESSMENTS / CERTIFICATIONS

### National Programme On Technology Enhanced Learning [NPTEL]

**Aggregate:** 67 / 100

I successfully Completed the NPTEL course in Automation in Manufacturing Subject.

### Catia V5 Beginner to Advanced - Automatic and Industrial

### The Complete Hydraulic Course

## SEMINARS / TRAININGS / WORKSHOPS

### "Battery Management System For Electric Vehicles"

09 Oct, 2023 - 14 Oct, 2023

**Institute Name:** STES's Sinhgad College of Engineering, Pune, Maharashtra.

**Key Skills:** Automotive Energy Efficiency Electrical system Lithium Ion Cell Voltage

The purpose of a Battery Management System (BMS) is to monitor, manage, and protect the cells within a battery pack, ensuring optimal performance, longevity, and safety.

## PERSONAL INTERESTS / HOBBIES

- I like to playing and watching the cricket, listening to kirtan, & like to read factual stories and also like to listening.

## PERSONAL DETAILS

**Gender:** Male

**Marital Status:** Single

**Current Address:** Kate vasti, Alandi Taluka Khed And District Pune., Pune, Maharashtra, India - 412105

**Emails:** gaurav.mali@mitaoe.ac.in , maligaurav307@gmail.com

**Date of Birth:** 26 Jul, 2002

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

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## REFERENCES

- **Dr. S.B. Patil**  
(Assistant Professor, MIT Academy Of Engineering Alandi, Pune)  
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