

Meet Patel

✉ meetp3089@gmail.com

☎ 7875933938

📍 Pune, India

🌐 Meet Patel

Profile

Mechanical engineer with practical experience in engineering projects, manufacturing processes, and mechanical systems. I have a practical approach to solving real-world engineering problems, strong analytical skills, and meticulous attention to detail. devoted to providing high-quality outcomes and ongoing skill development. Seeking a role to help utilise my background in Mechanical Engineering to learn and employ manufacturing processes for a company that benefits my domain of study, while contributing to the growth of the company.

Professional Experience

2023/06 – 2023/06 Pune, India	Summer Intern <i>CIE Automotive India, Ltd.</i> I gained a thorough understanding of how products are designed and turned into physical components. exposure to the foundry's casting, moulding, and pattern-making processes firsthand. I also learned about the production of various automotive products, insights into different methods of measurement and quality control.
2025/01 – 2025/06 Aurangabad, India	In-Plant Intern <i>Greaves Cotton Ltd.</i> Hands-on experience in the manufacturing of different types of crankshafts and crankcases. Worked on TIMWOOD and Muda-based waste identification and used lean manufacturing tools for waste management. Contributed to an AI-enabled automated visual inspection system for the PDI station using cameras, sensors, and software algorithms for real-time quality inspection.
2025/08 – 2025/10 Pune, India	Operations Coordinator-freelance <i>Mindforge Knowledge Solutions Private Limited</i> worked in content development and quiz event management. I have managed client relations, event operations, content creation, and customisation in accordance with project specifications.

Education

2021 – 2025 Pune, India	B. Tech, Mechanical Engineering <i>Vishwakarma Institute of Technology, Pune</i> CGPA-8.49
2020 – 2021 Aurangabad, India	HSC <i>Kulbhushan Junior College</i> Percentage-95.5%
2018 – 2019 Aurangabad, India	SSC <i>Saraswati Bhuwan High School</i> Percentage-86%

Skills

Problem Solving	Ansys Mechanical
Microsoft Office	Leadership
Canva	Solidworks
Generative AI	Prompt Engineering
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Projects

"Patent Published": Easy jack prototype- A solution for all two wheelers

Application Number: 202421040670 | *Year:*2024

Developed A jack from scratch to address the issue of using two different types of jacks for both IC engine and EV two-wheelers. A proper process was followed from designing, modelling, development and finally the analysis using Ansys software.

Design of Multiplate clutch

In this project, we performed a numerical study of a multiplate clutch of the Bajaj Pulsar(150cc). We also modelled the clutch using the SolidWorks software, and we analysed stress, strain, and deformation using the Ansys program.

New Age Braking System

Worked on a magnetic braking system aimed at improving braking efficiency while reducing mechanical wear and maintenance requirements. The project focused on using electromagnetic principles to generate contactless braking force, minimising friction-related losses and enhancing system reliability.

Automatic Toll Collection System

Developed an IoT-based automated toll collection system to reduce manual intervention and improve operational efficiency. The system enabled automated vehicle identification and toll deduction using connected sensors and Satalite mapping, minimising manpower requirements and reducing processing time at toll plazas.

Organizations

2022 – 2022	Atmabodh
Pune, India	<i>Volunteer</i>
Pune, India	Society of Automotive Engineers(SAE,VIT Pune)
	<i>Social Media Chairperson</i>

Certificates

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| • Ansys Mechanical ↗ | • Solidworks ↗ |
| • Lean Six Sigma White Belt Certification ↗ | • SIEMENS - Project Manager Job Simulation ↗ |
| • Deloitte Australia - Data Analysis Job Simulation ↗ | • Generative AI Foundation Certificate In Collaboration With Microsoft ↗ |
| • SAE - Social Media Chairperson ↗ | • Atmabodh |