



SWARAJ BANKAT NANGARE

B.Tech. - Mechanical Engineering
- MIT ADT - School of Engineering
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PROFESSIONAL SUMMARY

Mechanical Engineering student with knowledge of CAD modeling, manufacturing processes, thermodynamics, and machine design. Skilled in problem-solving, technical analysis, and engineering drawing. Familiar with software tools like AutoCAD, SolidWorks. Strong teamwork, communication, and quick learning abilities.

KEY EXPERTISE

Engineering Drawing & Drafting CAD Modeling (AutoCAD, CATIA, SolidWorks, Creo) Thermodynamics Heat Transfer
Fluid Mechanics Industrial Engineering Basics Strength of Materials Welding and Fabrication Basics
Maintenance and Troubleshooting Quality Control & Inspection Machine Design Teamwork Leadership
Time management Adaptability Basic ANSYS and MATLAB knowledge

EDUCATION

MIT ADT - School of Engineering

2023 - 2027

B.Tech. - Mechanical Engineering - MIT ADT - School of Engineering | CGPA: 7.92 / 10

Sharad Pawar High School, Osmanabad

2023

12th | MSBSHSE | Percentage: 66.67 / 100

Shripathrao Bhosle High School, Osmanabad

2021

10th | MSBSHSE | Percentage: 89.40 / 100

PROJECTS

Wireless Charging Road

17 Jan, 2025 - 05 Dec, 2025

Mentor: Prof. Amol Kunjir | Team Size: 4

Key Skills:

Wireless Power Transfer (WPT) Energy Optimization Sustainable Energy Systems Electric Vehicle (EV) Technology
Contactless Charging Technology

Developed a prototype wireless charging system for electric vehicles using electromagnetic induction to enable contactless power transfer. Focused on improving charging efficiency, alignment, and energy optimization while exploring sustainable EV infrastructure solutions.

Smart Dustbin

18 Aug, 2024 - 14 Dec, 2024

Mentor: Prof. Amol Kunjir | Team Size: 4

Key Skills:

Embedded Systems Sensor Interfacing Servo Motor Control (SG90) Real-Time System Control Hardware Integration

Developed an automated smart dustbin system using Arduino Uno, HC-SR04 ultrasonic sensor, and SG90 servo motor to enable contactless waste disposal. The system detects user proximity and automatically opens the lid, improving hygiene, reducing contamination risk, and demonstrating embedded system automation with low-cost implementation.

ASSESSMENTS / CERTIFICATIONS

Product Design and Development

Provider: NPTEL

Aggregate: 55 / 100

Key Skills: Product Design Fundamentals Product Development Process Engineering Concepts

Successfully completed the NPTEL course Product Design and Development, gaining knowledge of product lifecycle, design methodologies, prototyping, and development strategies used in engineering industries. Developed problem-solving and analytical skills for creating efficient and user-centered product solutions.

MATLAB Onramp

Aggregate: 100 / 100

Successfully completed the MATLAB Onramp training course by MathWorks, gaining foundational knowledge of MATLAB programming, data analysis, visualization, and mathematical computing for engineering and technical applications.

05 May, 2025 - 18 Jul, 2025

Successfully completed hands-on workshop training, gaining practical experience in diagnosing and repairing automobile components while improving vehicle performance and reliability. Applied core principles of physics and thermodynamics to solve technical challenges during maintenance and repair tasks. Collaborated effectively with senior mechanics and peers to troubleshoot and resolve complex mechanical issues efficiently. Actively participated in group projects, technical presentations, industry seminars, and departmental events, which strengthened teamwork, communication, professional knowledge, and networking skills.

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