

Sarvesh Bobade

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EDUCATION

MSC, Mechanical Engineering, North Carolina State University Aug 2023 – May 2025 | Raleigh, United States
BE, Mechanical Engineering, Savitribai Phule Pune University Aug 2017 – Jul 2021 | Pune, India

PROFESSIONAL SKILLS

Solidworks | Catia | AutoCAD | Pro-E | UG-NX | Creo | Python | Matlab | Open sim | Microsoft Office | Simulink |
Certification in Automotive Engine Calibration

PROFESSIONAL EXPERIENCE

Sua Automation, Design Engineer Jul 2022 – Apr 2023 | Pune, India

- Developed an innovative fuel tank transfer system incorporating eccentric lifts, fixtures, and traversers for Toyota Motors India, enhancing operational efficiency.
- Engineered roller conveyor with tilt mechanism for transmission assembly at John Deere Motors.
- Developed jigs and fixtures for engine assembly docking at Suzuki Motors India.
- Designed wax booth, roller conveyor, and eccentric lift for car transfer in body paint shop at Mercedes-Benz India.
- Implemented cost-effective solutions, resulting in reduced production expenses while maintaining high quality standards.
- Collaborated closely with cross-functional teams to ensure seamless integration of special purpose machines into existing manufacturing processes.

Decon Systems and Equipments Pvt Ltd, Graduate trainee Engineer Aug 2021 – Jul 2022 | Pune, India

- Proficient in understanding technical drawings and specifications for conveyor, feeder, and crusher systems.
- Skilled in preparing detailed drawings using AutoCAD, ensuring accuracy and adherence to project requirements.
- Experienced in selecting materials for construction and mechanical equipment, including metal detectors, magnetic separators, pulleys, filter bags, gearboxes, motors, etc.
- Demonstrated ability to integrate various components seamlessly to optimize system performance and efficiency.
- Proven track record of designing and developing robust systems that meet industry standards for reliability and safety.

Infinite Graphix Technologies Pvt Ltd, Design Intern Jun 2020 – Jul 2020 | Pune, India

- Proficient in AutoCAD software after completing a two-week internship where I designed a tank with a reservoir, meeting project requirements and deadlines.
- Successfully completed an internship in Catia software, including the development of a multistage conveyor system project, delivered on schedule.
- Skilled in ANSYS software following a three-week course covering Finite Element Analysis principles, stress, and strain concepts.
- Completed a project in ANSYS involving the design and analysis of a piston, delivering comprehensive reports on time and receiving commendation for performance.

PROJECTS

Analysis of Vibration suppression system design and Design of automobile shock absorber system. Aug 2023 – Dec 2023

- Analysis of Vibration Suppression System Design: Conducted in-depth evaluations to minimize vibrations in mechanical systems.
- Design of Automobile Shock Absorber System: Developed optimized shock absorber designs to enhance vehicle stability and ride comfort.

Development and Performance Evaluation of a Converted Electric Vehicle from an Internal Combustion Engine Platform. 2020 – 2021

- Led a project focused on converting internal combustion engine vehicles to electric, aiming to achieve performance comparable to factory-manufactured electric vehicles.
- Designed and manufactured critical components including motor mounting plate, engine mounting plate, and custom shaft to replace the crankshaft.
- Acquired valuable project learning experiences in teamwork, emerging technologies, material selection, and weight distribution optimization for vehicles.

Simulation Framework and Upper Limb Locomotion Model for Baseball Athletes To Reduced Injuries. Aug 2023 – Dec 2023

- Developed a real-time simulation framework integrating an upper limb locomotion model tailored for baseball athletes.
- Aimed to optimize performance and minimize injuries through advanced biomechanical analysis and training simulations.

Study and analyse applications of eddy currents in damping/Braking systems. Jan 2024 – Apr 2024

- Investigated and analyzed the diverse applications of eddy currents in damping and braking systems.
- Explored their role in providing effective and efficient energy dissipation, contributing to improved performance and safety in various engineering applications.

Analysis and simulation of electromagnetic work piece holding chuck. Jan 2024 – Apr 2024

- Conducted comprehensive analysis and simulation of electromagnetic work piece holding chucks.
- Explored their effectiveness in securely gripping ferromagnetic workpieces during machining processes, optimizing workflow and ensuring precision.