

# BHUVANESH DESHMUKH

Mechanical Engineering Student | Aspiring Design Engineer | Product Design

+91-9404937145 | [bhuvaneshdeshmukh@outlook.com](mailto:bhuvaneshdeshmukh@outlook.com) | [linkedin.com/in/bhuvaneshdeshmukh](https://www.linkedin.com/in/bhuvaneshdeshmukh) | Pune, Maharashtra

## PROFESSIONAL SUMMARY

Mechanical Engineering student (B.Tech, 4th Year, 81.78%) with hands-on experience in 3D CAD modeling and basic simulation using SolidWorks, CATIA, and ANSYS. Worked on multidisciplinary projects involving automation, structural design, and embedded systems. Familiar with GD&T, Design for Manufacturing (DFM), and Design for Assembly (DFA). Seeking an entry-level Mechanical Design Engineer role.

## TECHNICAL SKILLS

**CAD & Design:** CATIA, SolidWorks, AutoCAD, 3D Modeling, Assembly Design, 2D Drawings

**Simulation:** ANSYS (Static Structural – basic), FEA fundamentals

**Design Concepts:** GD&T, DFM, DFA, Tolerance Analysis (basic), Engineering Drawings

**Mechatronics:** Arduino, TCS3200 Sensor, Servo Motors, Basic Circuit Design

**Core Subjects:** Strength of Materials, Theory of Machines, Thermodynamics, Fluid Mechanics

**Soft Skills:** Problem Solving, Team Collaboration, Leadership, Design Thinking

## EDUCATION

**B.Tech – Mechanical Engineering | 81.78%** 2024 – 2027

JSPM's Rajarshi Shahu College of Engineering, Pune | Expected Graduation: May 2027

**Diploma – Mechanical Engineering (MSBTE) | 83.38%** Completed 2024

Government Polytechnic, Khamgaon | Published 2 peer-reviewed technical papers during program

## INTERNSHIP EXPERIENCE

**Mechanical Engineering Intern | Autoland – Maruti Suzuki Authorized Service Center, Maharashtra** Jun 2023 – Jul 2023

- Diagnosed mechanical and electrical faults across 20+ vehicles using OBD diagnostic systems, covering engine, transmission, brake, and fluid systems with documented root-cause findings.
- Executed preventive maintenance schedules per Maruti Suzuki SOPs including engine servicing, suspension inspection, and fluid replacement; maintained accurate service records for every job order.

## PROJECTS

**Vertical Farming System – Structural & Mechanical Design | Team of 7 | EPIC Community Initiative | Mentor: S. Lakade** Jul 2025 – Feb 2026

- Designed structural and mechanical framework for a sustainable urban vertical farming system; performed feasibility analysis, load-bearing calculations, and created full design documentation.
- Transferred all deliverables with comprehensive documentation to the continuation team, ensuring seamless handover of this community-impact engineering initiative.

**Automatic Colour Sorting Machine | Team of 5 | S.Y-B.Tech Project | Mentor: Sachin Argade** Jan 2025 – Apr 2025

- Designed and fabricated an Arduino-based colour sorting system integrating TCS3200 colour sensor, servo motor actuators, and conveyor mechanism; modeled full 3D CAD layout in SolidWorks.
- Engineered RGB-based classification logic in microcontroller firmware enabling real-time automated sorting; completed end-to-end circuit design and hardware prototype validation.

**Vehicular Wind Turbine for Auxiliary Power Generation | Team of 4 | Diploma Research | Mentor: Ananta Dhole** Aug 2023 – Mar 2024

- Conducted aerodynamic analysis and engineering calculations to evaluate optimum turbine placement on EVs; estimated theoretical power output from vehicular airflow; published as peer-reviewed paper (Mar 2024).

**Agricultural Drone for Precision Farming | Team of 5 | Diploma Research | Mentor: Arun Kakad** Aug 2023 – Jan 2024

- Evaluated fixed-wing, multi-rotor, and hybrid VTOL UAV platforms for precision agriculture; secured 3rd Place at Maharashtra State Level Technical Paper Presentation Competition.

## LEADERSHIP & POSITIONS OF RESPONSIBILITY

**Design Head – Mechanical Engineering Students' Association (MESA) | JSPM's RSCOE** 2025 – Present

- Directed a 6-member creative team delivering 30+ event materials (posters, certificates, banners) for departmental workshops and seminars; ensured consistent brand identity and on-time delivery.

**Event Head – Ideathon 2K26 | JSPM's RSCOE – Departmental Innovation Competition** Jan 2026

- Planned and executed innovation competition for 100+ students; managed registration, judging criteria, volunteer coordination, and stage operations.

## AWARDS, PUBLICATIONS & ACHIEVEMENTS

- 3rd Place – Maharashtra State Level Technical Paper Presentation Competition (Agricultural Drone Research, 2024).
- Published: 'Design and Analysis of a Vehicular Wind Turbine for Auxiliary Power Generation in Electric Vehicles' – Govt. Polytechnic, Khamgaon (March 2024).
- Published: 'A Study on Agricultural Drones for Precision Farming Applications' – Govt. Polytechnic, Khamgaon (January 2024).