

Supriya Mortule

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EDUCATION

Dr. Babasaheb Ambedkar Marathwada University Chh. Sambhajinagar (India) (Aug 2023 – May 2027)
Government College of Engineering, Aurangabad
Bachelor of Technology in Mechanical Engineering
Year: 3rd (Ongoing) GPA: 7.08/10.0

EXPERIENCE

Intern – Concentric Pumps, Pune (India) (June 2024 – June 2024)

- Observed manufacturing workflows and quality control across machining and assembly departments
- Studied FIFO-based serial number traceability enabling rapid fault identification and component tracking
- Learned statistical sampling inspection methods and total quality management practices in large-scale production environments

LEADERSHIP AND INVOLVEMENT

Team Aryans Racing (April 2025-June 2026)
Suspension Lead

- Designed suspension system for a Rear-Wheel Drive (RWD) All-Terrain Vehicle
- Resolved shock absorber damper rod failures and Heim joint bending by correcting bracket alignment
- Calculated fastener tightening torques to prevent joint slippage and failure under high stress
- Created industry-standard CAD drafts, and applied GD&T for design validation and manufacturability
- Conducted DFMEA to identify potential design risks and improve product quality.

Sales Lead

- Drove the sales project covering plant location analysis, assembly line layout, workforce planning, supply chain strategy, financial modelling including break-even, P&L, and EBITDA projections, and risk assessment
- Conducted SWOT analysis and competitive benchmarking to define target market segments and after-sales service strategy

CAE Lead

- Managed CAE reporting workflow across sub-department, consolidating FEA and topology optimization results into a unified design document; achieved up to 25% weight reduction in targeted components
- Developed and validated a quarter car wave model in MATLAB for ride simulation and analysis

Mechanical Engineering Student Association (MESA), GECA (Sept 2023 - April 2024)
Coordinator

- Organized seminars on resume building, career pathways after engineering, and guidance on master's admissions and competitive examinations

ACHIEVEMENTS

- **[2023] – Basketball Team Captain:** Captained the college team to a 1st Runner-Up finish at the Intercollegiate Tournament
- **[2023] –** Selected for the university basketball team to compete at the Inter-University Tournament based on intercollegiate performance.
- **[2025] –** Achieved Best Debutant Team, securing 2nd rank in Engineering Design BAJA SAE INDIA
- **[2026] – Suspension Lead, Team Aryans Racing:** Ranked 11th out of 92 national teams at BAJA SAE
- **[2026] – Design Team Representative:** Secured 1st Rank in the Engineering Design Event at BAJA SAE
- **[2026] – Sales Lead:** Secured 9th rank out of 92 national teams in the Sales Event at BAJA SAE INDIA

SKILLS

Software: SolidWorks, ANSYS, Hyper Works, Lotus Shark, MATLAB(beginner), Microsoft Office 365

Analysis: Linear Static, Inertia Relief, Topology Optimization, Modal, Fatigue

Manufacturing: 3D Printing and Rapid Prototyping, Component Fabrication.

Soft skills: Teamwork, Leadership, Problem solving, Time Management, Adaptability.