Rohit Jagdish Patel

Clemson, SC | rohit2@clemson.edu | +1 (864) 722 3735 | linkedin.com/in/rohitjpatel1729

EDUCATION

Savitribai Phule Pune University, MET's BKC Institute of Engineering Nashik, India
Bachelor of Engineering (*Mechanical, 1st Division)* | **GPA**:3.2/4.0 May,2018
Relevant Coursework: Engineering Mechanics, Material science, Thermodynamics,
Hydraulics & pneumatics, Mechatronics, Metrology & quality control, Advanced manufacturing process.
Honors & Awards: Best Paper Award,2nd Place, Manufacturing Domain, SPICON 2022 (Sardar Patel International Conference).

WORK EXPERIENCE

Gabriel India Ltd. Nashik, India
Senior Manufacturing Engineer *September 2023- May 2024*

- Directed Tooling & Process Improvement across diverse automotive lines, optimizing Front Fork Grinding, Shock absorber Welding, Paint, and assembly line for 2&3 wheelers.
- Managed Feasibility Evaluation, Capital Expenditure, and adeptly handled PPAP/APQP documentation.
- Resolved customer complaints, organized new product tooling, and implemented cost-effective modifications, showcasing strong communication, adaptability, and consistent deadline achievement.

Orbital Systems (Bombay) Pvt. Ltd. Nashik, India
Jr. Mechanical Design Engineer *August 2022- August 2023*

- Developed rotary machines & layouts aligning with customer RFQs, integrating ergonomics, assembly, and function considerations into designs.
- Managed end-to-end project execution, from operation sequences, costing, and quotations to design approvals and material coordination.
- Coordinated extensively across departments, resolving shop floor issues, conducting project reviews, and providing on-site support, while preparing technical documentation and pneumatic/hydraulic circuits.

Sukhdhan Automation Pvt. Ltd. Nashik, India
Mechanical Design Engineer *July 2018- July 2022*

- Analyzed RFQs, conducting cost estimations and creating conceptual layouts for the Design Approval Process (DAP).
- Led complete mechanical designs of special-purpose machines, including calculations for selecting standard products and generating operational pneumatic or hydraulic circuits.
- Prepared time diagrams for sequence of operations and created Dimensional Drawings, Assembly Drawings, Part Drawings, and comprehensive Bill of Materials.

PUBLICATION

- **Investigation of Open pocket 3D Milling of *Ti6Al4V* by Gray Relational Approach** (American Institute of Physics conference proceedings.).
- **Machining Challenges in Stainless Steel—A Review**.

SKILLS

- **Technical**: Process Improvement, Tooling Management, Feasibility Assessment, Project Management, Machine element design, Finite element analysis, Manufacturing processes.
- **Software**: SOLIDEGE, SolidWorks (Proficient), ANSYS and Hyper mesh. (Elementary proficiency)
- **Languages:** MATLAB, C and Python (Elementary proficiency)
- **Interests:**
  Music: Enjoy listening to local folk songs and sketching occasionally.
  Sports: Playing Badminton, Cricket, Cycling.
  Hobbies: Baking and cooking local Indian delicacies and reading scientific and engineering journals during leisure.