

PRATEET SINGH SALUJA

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SUMMARY

Motivated Mechanical Engineering graduate specializing in Engineering Design and Mechanics, with hands-on research experience in Fluid Mechanics at the University of Pune. Skilled at applying theoretical concepts to practical solutions. Graduated June 2023 and eager to expand expertise through real-world projects.

EDUCATION

Purdue University, West Lafayette, Indiana.

August 2024 - Current

Master of Science in Mechanical Engineering

Relevant Coursework: Engineering Design: A Decision-Based Approach, Product Lifecycle Management

Marketing Management and Industrial Applications of Statistics

University of Pune, Pune, India.

June 2019 - May 2023

Bachelor of Technology in Mechanical Engineering

Cumulative GPA: 3.5/4 (8.9/10)

Relevant Coursework: Mechanical Design and Manufacturing, Hybrid Vehicles, Mechanical Systems Design, Electric Vehicles, Fluid Engineering and Applied Thermal Engineering

EXPERIENCE

Design Engineer, Saluja Engineers, Pune, India

July 2023 - August 2024

- **Created 3D models** and engineering drawings for all manufactured products, collaborating closely with outsourced manufacturers to ensure accuracy and quality.
- **Managed the Manufacturing Unit**, boosting efficiency by using value engineering, lean manufacturing and time study.
- **Developed and implemented ERP** software to manage supply chain, inventory, production, and purchase planning.
- Established Standard Operating Procedures (SOPs) to uphold ISO standards, leading to the achievement of **ISO 9001 certification**.

Mechanical Engineering Intern, Master Pressing Works, Pune, India.

July 2022 - December 2022

Cross Functional Engagement across core departments – Production, Quality and Packaging.

- **Production** – Supervised workstations, planned weekly schedules and set up and inspected tools and dies on press machines.
- **Quality** – Developed the QMS (Quality Management Systems) and handled external audits.
- **Packaging** – Assisted with Pre-Dispatch Inspection (PDI) to ensure quality and compliance.

RESEARCH EXPERIENCE

Research Assistant, Tribology Lab, University of Pune, India.

January 2023 - July 2023

- Conducted an in-depth study to analyze how variations in temperature and oil flow rate influence the performance and shape of hydrodynamic journal bearings.
- **Utilized data analysis and statistics** to establish a relationship between these parameters, contributing to optimized bearing design and enhanced mechanical efficiency.

SKILLS & ACHIEVEMENTS

- Certified in AutoCAD.
- Certified Red Cross Safety Education Instructor adept at providing exceptional training, developing lesson plans, ensuring participant safety and managing accredited programs in compliance with American Red Cross standards.
- Experienced user of Python and R programming.
- Proficient with tools- CATIA V5, Fusion 360, Arduino IDE, R Studio and Android Studio.
- Proficient in Geometric Dimensioning and Tolerancing (GD&T) for clear communication of manufacturing constraints and tolerances in design annotations.
- Arranged and coordinated a leadership development program for over 200 people.
- Part of the Event Planning and Execution Committee at Vishwakarma Institute of Technology, Pune.
- Anchor of various events at Vishwakarma Institute of Technology, Pune.
- Teaching volunteer for underprivileged children in alliance with the National Service Scheme of India.