

PRATIKA P CHOUGULE

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PROFESSIONAL SUMMARY

Mechanical Engineering undergraduate interested in manufacturing, production, hydraulics, mechanical design and R&D. My academic projects have given me hands-on exposure to vibration analysis, chatter prediction, tool-workpiece interaction and Digital Twin-based mathematical modeling. I also have practical industrial exposure to hydraulic systems, manufacturing processes, quality control and shop-floor operations. I am keen to apply my engineering fundamentals in practical industrial environments and contribute to manufacturing, design and R&D activities.

EDUCATION

Bachelor of Engineering (B.E.) – Mechanical Engineering

KLS Gogte Institute of Technology, Belgaum

Pre-University (PUC)

GSS PU College, Belgaum

TECHNICAL SKILLS

CAD & Design: AutoCAD, CATIA V5, Fusion 360

Programming: Basics of Python Programming

Engineering: Manufacturing, Machining Science, Fluid Mechanics, Mechanics of Materials, Machine Design

RELEVANT AREAS

Manufacturing, Production, Hydraulics, Design, Supply Chain, R&D

INTERNSHIP / INDUSTRIAL TRAINING

Industrial Intern – Spica Hydraulics Pvt. Ltd., Belgaum

- Gained practical exposure to hydraulic systems, hydraulic components, manufacturing processes, production, quality control and inspection.
- Observed hydraulic component manufacturing, assembly, maintenance, CAD-based design and shop-floor production workflow.
- Learned and observed ISO 9001:2015 quality practices, 5S, workplace safety, preventive maintenance and industrial management practices.

PROJECTS

Numerical Analysis of Chatter in Long Slender Tool (Mini Project)

- Analysed vibration and chatter behaviour in long slender cutting tools to understand how machining conditions affect tool stability and machining performance.

Digital Twin-Based Mathematical Modeling and Numerical Analysis of Tool–Workpiece Chatter (Major Project) – Ongoing

- Developing a Digital Twin-based mathematical model for tool–workpiece interaction, numerical analysis and chatter prediction in machining operations.

ACTIVITIES & ACHIEVEMENTS

- NCC 'C' Certificate holder with Bravo grading and Junior Under Officer (JUO) rank.
- Participated in the Simple to Complex event at Avalanche College Fest.

SOFT SKILLS

Problem Solving, Communication, Team Collaboration, Adaptability, Attention to Detail

LANGUAGES

English, Hindi, Marathi