

Aryan J Dorugade

Mechanical Engineering Student

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📍 Belagavi, Karnataka

PROFILE SUMMARY

Mechanical Engineering student with hands-on experience in **manufacturing layout analysis, production flow improvement, AutoCAD and additive manufacturing**. Interested in manufacturing, production engineering and mechanical design, with practical exposure through industry-based projects and experimental analysis.

EDUCATION

KLS Gogte Institute of Technology

B.E. Mechanical Engineering 2023 – 2027

CGPA: 6.4

Rotary English Medium School

Pre-University Course – Science

khed, Ratnagiri, Maharashtra

Percentage: 57%

ST.Xavier English Medium School

SSC – Class X

Mahad, Maharashtra

Percentage: 68%

TECHNICAL SKILLS

CAD: AutoCAD, SolidWorks, CATIA

Manufacturing: Casting, CNC, Additive Manufacturing, 3D Printing

Analysis: Basic ANOVA, Dimensional Analysis

Programming: C, Python

Software: MS Excel, PowerPoint, Word

COURSEWORK

- Manufacturing Processes
- Machine Design
- Fluid Mechanics
- Thermodynamics
- Operations Management
- Product Design
- Additive Manufacturing
- Supply Chain Management

AREAS OF INTEREST

- Manufacturing
- Production Engineering
- Mechanical Design
- Industrial Engineering

PROJECT EXPERIENCE

Manufacturing Facility Layout Optimization Major Project

- Analyzing the existing manufacturing facility layout to identify opportunities for improved production flow and reduced cycle time.
- Prepared the existing shop-floor layout in AutoCAD using measurements collected during industry visits.
- Studied machine locations, material movement and the sequence of manufacturing operations.
- Identified unnecessary material movement and proposed layout improvements to improve production flow.

Dimensional Accuracy of 3D Printed Parts Mini Project

- Investigated the effects of infill percentage, layer thickness and printing speed on the dimensional accuracy of FDM components.
- Manufactured test specimens using a Creality Ender 3 V3 SE 3D printer.
- Measured dimensional deviations using a vernier caliper and analyzed experimental results.
- Applied ANOVA to evaluate the significance of process parameters.

INDUSTRIAL EXPOSURE

Manufacturing Industry

Industrial Project Work

- Conducted regular industry visits to study manufacturing operations and collect shop-floor measurements.
- Studied machine locations, material movement and production sequence.
- Prepared technical drawings and documented machine locations and dimensions.
- Observed manufacturing operations and identified potential improvements in material flow.

CERTIFICATIONS & COURSES

- NPTEL – Product Design and Manufacturing
- NPTEL – Introduction to Fluid Mechanics
- Additive Manufacturing and Reverse Engineering
- Udemy – Catia V5 Automotive and Industrial