Rohan Deshmukh

Mechanical Engineer

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PROFILE

Mechanical engineer with 6 years in automotive component manufacturing. Experienced in CAD design, tolerance analysis and shop floor problem solving. Cut scrap on a gearbox housing line by 18% and shortened a die change from 55 to 35 minutes. Looking for a design or process engineering role in a growing manufacturing plant.

EXPERIENCE

Jun 2022 – Present

Senior Design Engineer, Sahyadri Auto Components Pvt Ltd
Pune, India

- Design aluminium gearbox housings in SolidWorks and release drawings with GD&T for 3 vehicle programmes.
- Ran FEA checks in ANSYS on 12 brackets, removing 0.4 kg per part without failing fatigue tests.
- Cut scrap on the housing machining line by 18% by revising fixture locators and datum scheme.
- Led a 5 Why and fishbone review on porosity rejections, bringing the defect rate from 3.1% to 1.6%.
- Support suppliers during PPAP submissions and review first article reports before volume production starts.
- Mentor 2 junior engineers on drawing standards, model checks and design review preparation.

Jul 2020 – May 2022

Design Engineer, Kestrel Precision Works
Nashik, India

- Prepared 2D and 3D models for press tools and checking fixtures, with 40+ drawings released on time.
- Maintained the bill of material and revision history for 3 tool families in the ERP system, avoiding wrong part issues.
- Shortened die change time from 55 to 35 minutes using SMED and standard work instructions.
- Coordinated with toolroom and quality teams to close 22 customer change requests in one year.

Jan 2020 – Jun 2020

Graduate Trainee Engineer, Northwind Heavy Engineering
Aurangabad, India

- Prepared inspection reports for 150+ machined parts and flagged 9 dimensional deviations to the shift lead.
- Assisted in installing a new CNC lathe, including levelling, trial cuts and operator handover.

PROJECTS

Hydraulic press frame redesign, SolidWorks, ANSYS

- Reduced frame weight by 11% while keeping deflection under the 0.5 mm limit.
- Compared 3 rib layouts using static FEA and chose the one with the lowest stress concentration.
- Released the final drawing set with welding symbols and a bill of material for the fabrication vendor.

AWARDS

Kaizen Champion of the Year, Sahyadri Auto Components — Mar 2024

Recognised for the die change reduction project across 3 press lines.

EDUCATION

2016 – 2020

B.E. Mechanical Engineering, College of Engineering Pune

Pune, India | 8.2 CGPA

SKILLS

SolidWorks · AutoCAD · ANSYS · GD&T · FMEA · SMED · Root cause analysis · Lean manufacturing · MS Excel · Tolerance stack-up

CERTIFICATIONS

Lean Six Sigma Green Belt, Indian Statistical Institute — Mar 2023

CSWP Mechanical Design, Dassault Systemes — Sep 2021