

Nisha Chauhan

Senior Design Engineer – Product Development

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PROFESSIONAL SUMMARY

Mechanical design engineer with seven years in product development for off-highway and agricultural equipment. Leads sheet-metal and casting designs from concept to production release, including FEA checks, DFMEA and supplier PPAP support. Works in Creo and ANSYS with cross-functional teams, and has delivered weight and cost reductions on several production components.

SKILLS

Creo Parametric · ANSYS structural analysis · Sheet-metal and casting design · GD&T and tolerance stack-up · DFMEA · PPAP support · Design for manufacturing · Engineering change management · Teamcenter PLM

EXPERIENCE

Senior Design Engineer — Off-highway equipment manufacturer, Pune

4 years · current

- Led design of a new operator cabin frame, coordinating with styling, manufacturing and supplier teams through prototype and pilot builds.
- Reduced the weight of a loader bracket by about twelve percent through topology-guided redesign validated in ANSYS.
- Owned DFMEA reviews for cabin and chassis subsystems and closed high-priority actions before production release.
- Guided two junior engineers on drawing standards, tolerance stack-ups and engineering change documentation.

Design Engineer — Agricultural machinery manufacturer, Pune

3 years

- Designed sheet-metal guards and cast housings for tractor implements using Creo and in-house design standards.
- Converted a welded assembly into a single casting with the supplier, lowering part count and assembly time.
- Supported suppliers through PPAP submissions and resolved dimensional deviations with revised drawings and gauges.
- Released more than one hundred fifty drawings and change notices through the PLM system without audit findings.

EDUCATION

M.Tech. Design Engineering — State government engineering college, Pune

Thesis on fatigue life of welded brackets

B.E. Mechanical Engineering — State university affiliated engineering college, Nagpur

CERTIFICATIONS AND REGISTRATIONS

- Lean Six Sigma Green Belt
- GD&T advanced course based on ASME Y14.5
- ANSYS Mechanical training programme

PROJECTS

- Cabin frame redesign — new frame passed rollover protective structure tests on the first physical prototype
- Casting conversion — replaced a five-part weldment with one casting, simplifying assembly for the line

LANGUAGES

English · Hindi · Marathi