ANKIT SHRAVAN

MECHANICAL DESIGN ENGINEER | FREELANCE CAD DESIGN

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PROFESSIONAL SUMMARY

Mechanical Design Engineer with 5+ years of experience in mechanical design, heavy equipment structures, manufacturing drawings, welded assemblies, and engineering design support. Experienced in excavator structures, 3D modelling, assembly design, BOM documentation, GD&T, and Design for Manufacturing (DFM). Familiar with Siemens NX, SolidWorks, and AutoCAD, with a focus on practical, manufacturing-oriented CAD solutions.

TECHNICAL SKILLS

CAD Software: Siemens NX | SolidWorks | AutoCAD| Team center PLM
Mechanical Design: 3D Part Modelling | Assembly Modelling | 2D Engineering Drawings | Manufacturing Detailing
Engineering: Welded Structures | BOM | GD&T | DFM/DFA | Engineering Change Documentation | Design Modifications

PROFESSIONAL EXPERIENCE

Design Engineer — (Tata Group Heavy Machinery domain)

August 2024 – Present

- Contribute to design and development activities for large excavator structures and mechanical assemblies, including 49-ton and 89-ton platforms.
- Develop and modify 3D models and manufacturing drawings for structural and mechanical components.
- Support design work involving main frames, chassis, buckets, and other welded structures.
- Work with engineering changes, product data management, BOM documentation, and design reviews.
- Support manufacturing and production requirements through design modifications and engineering coordination.

Design Engineer — Xvarian Auto Industries, Gurgaon

April 2023 – July 2024

- Worked on BIW checking fixtures and automotive fixture design projects.
- Supported 3D modelling, 2D drawings, fixture documentation, GD&T, and DFM activities.
- Contributed to design validation, modifications, and manufacturing-feasibility improvements.

Earlier Experience

- Amar Jigs & Fixtures — Design Engineer: jig, fixture, and mechanical design activities.
- NCR Stencil — Design Engineer: fixture-related design and engineering support.
- Innolabz — Engineering Intern: exposure to AutoCAD and SolidWorks for mechanical components and kitchen automation.

FREELANCE CAD SERVICES

- 3D modelling of mechanical parts and components.
- Assembly modelling and component integration.
- 2D engineering drawings and manufacturing detailing.
- 3D-to-2D drawing creation from suitable CAD models.
- Modification of existing CAD parts and assemblies.
- Welded frames, brackets, and structural assembly design.
- Manufacturing-oriented design support for fabrication, welding, and assembly.
- CAD file delivery in agreed native or neutral formats, subject to software compatibility.

PROJECT WORKFLOW

1. Understand requirements and review client-provided drawings or reference data.
2. Build or modify CAD models and assemblies.

3. Prepare drawings and documentation according to the agreed scope.
4. Review deliverables, incorporate agreed revisions, and deliver files in the requested formats.

EDUCATION

B.Tech, Mechanical Engineering — Bengal College of Engineering & Technology, affiliated with MAKAUT | 2021 | CGPA: 8.05/10

PROFESSIONAL COMMITMENT

Focused on clear communication, practical engineering solutions, organized CAD deliverables, and attention to dimensional accuracy and manufacturing requirements. Available for freelance CAD modelling, assembly design, mechanical drafting, and engineering design assignments.