

Mohit Kumar

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 <https://mohitgaigan.github.io/cad-design-lab/>

About Me

Product Designer specializing in sheet metal and wood-based products with experience in New Product Development (NPD). Skilled in manufacturing processes, sheet metal fabrication, technical drawings, BOM preparation, product costing, and 3D layout visualization. Seeking a responsible role in a growth-oriented organization to deliver practical, manufacturable, and cost-effective design solutions.

Work Experience

- DELITE KOM LIMITED** Sep 2023 - - Present
Product Design Engineer
 - Lead end-to-end new product development (NPD) for sheet metal and wood-based products, including modular workstations, office almirahs, compactor storage systems, and chemical laboratory furniture.
 - Develop detailed technical drawings, fabrication drawings, and BOMs for production using industry-standard CAD tools.
 - Developed comprehensive 3D models, assemblies, and high-quality rendered floor plans to support client presentations, approvals, and space planning and to visualize furniture integration and spatial layouts, facilitating client presentations and streamlining the approval process for complex space planning projects.
 - Engineered precise SolidWorks models and photorealistic 3ds Max renders to visualize furniture integration, securing client approvals for complex spatial layouts.
 - Collaborated with fabrication, installation, and project teams to ensure design accuracy and on-site feasibility.
 - Support sales and project teams with technical clarifications, design revisions, and visualization assets during pre- and post-order stages
 - Led the complete product development lifecycle – concept ideation, 3D modeling, detailing, prototyping, and production handover.
 - Acted as ISO Audit Coordinator for ISO 9001 (QMS), ISO 14001 (EMS), and ISO 45001 (OHSMS), handling complete audit documentation including procedures, SOPs, records, and compliance reports as per ISO standards.
 - Conducted internal audits and mock drills for quality management, environmental management, fire safety, and health & safety, ensuring organizational preparedness and successful execution of external ISO audits.
- TECH MAHINDRA** JAN 2021 - 2022
Design Engineer
 - Involved In Designing Mechanical and Electrical Parts Via AutoCAD Tool
 - Provided input on manufacturing processes for new existing product
 - Identifying equipment specifications for new products to meet quality cost requirements
 - Worked with machine design purchasing in the acquisition of new equipment
 - Coordinated the introduction of new products onto the manufacturing floor
 - Provided key technical leadership to manufacturing and production during after introduction of the new product.
 - Responsible for resolving problems; identifying and analyzing changes in dimensions
 - Trained two new employees in industry knowledge, autocad tool; new employee performance was notable higher than average.

Education

- MDU** 2017
BTECH(Bachelor of Technology in Mechanical Engineering)
- LOVELY PUBLIC SCHOOL** 2012
Higher Secondary
- ST. LAWRENCE PUBLIC SCHOOL** 2010
SECONDARY EDUCATION

Tools

- CAD & Engineering: AutoCAD, SolidWorks
- Rendering & Visualization: PhotoView 360, 3ds Max, V-Ray, Corona Renderer
- Manufacturing & CAM: Delcam, PowerMill
- Graphic & Presentation: Adobe Photoshop, Adobe Illustrator, Canva, Ms powerpoint, excel, google spreadsheet

Skills

- Strong knowledge of engineering drawings, GD&T, and manufacturing processes.
- Proficient in AutoCAD & SOLIDWORKS for 2D/3D modeling, assemblies, sheet metal, weldment, molds, and detailed drawings.
- Advanced analytical and mathematical problem-solving skills.
- Experience converting hand sketches and AutoCAD drawings into accurate SOLIDWORKS 3D models.
- Skilled in CAM software: Delcam, Autodesk PowerMill; toolpath generation and NC code creation. Hands-on experience in VMC programming using G & M codes.
- Effective teamwork, communication, and project coordination abilities.
- Strong time management, prioritization, and quality-focused work ethic

Projects

- **PROJECT: ULTRATECH – OFFICE FURNITURE DESIGN AND LAYOUT**
 - Led the design and development of conference tables and modular workstations for the UltraTech project, from concept stage to final execution.
 - Managed the complete project design lifecycle, including space planning, product design, and client-specific customization.
 - Designed sheet metal and wood-based conference tables and workstation systems, ensuring durability, ergonomics, and aesthetic alignment with corporate standards.
 - Prepared detailed technical drawings, fabrication drawings, and BOMs for smooth manufacturing and on-site execution.
 - Created 3D rendered floor plan layouts and photorealistic visuals to help stakeholders visualize the final office setup and approve designs efficiently.
 - Coordinated with production, fabrication, and installation teams to ensure design accuracy, manufacturability, and timely project delivery.
 - Ensured compliance with ergonomic norms, space utilization requirements, and project-specific quality standards.
- **PROJECT: CFEES(CENTRE FOR FIRE,EXPLOSIVE AND FIRE SAFETY) CHEMISTRY LAB**
 - Led the design and development of chemistry laboratory furniture with a focus on functionality, safety, and efficient space utilization.
 - Developed detailed 3D models and realistic rendered floor plan layouts to help clients clearly visualize laboratory setup, workflows, and final installations.
 - Designed sheet metal laboratory tables and storage units suitable for chemical lab environments, considering durability and maintenance requirements.
 - Coordinated closely with production, fabrication, and sourcing teams to ensure designs were feasible for sheet metal fabrication processes including bending, punching, welding, and powder coating.
 - Prepared technical drawings and fabrication-ready documentation to support accurate manufacturing and smooth on-site execution.
 - Ensured designs met project-specific standards, safety guidelines, and client requirements for laboratory environments.

CERTIFICATES

- SOLIDWORKS CERTIFIED PROFESSIONAL(CSWP)
RVM CAD
- AUTOCAD CERTIFIED PROFESSIONAL
RVM CAD
- POWERMILL CAM PROGRAMMER
RVM CAD