

Jagdeep Singh

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Professional Summary

Mechanical Design Technologist experienced in delivering high-quality mechanical solutions through 3D/2D CAD modelling, engineering documentation, and cross-functional collaboration. Adept at static calculations, material selection, and designing for manufacturability. Proven ability to improve design accuracy, support qualification processes, and align engineering outputs with customer specifications and technical requirements.

Experience

Gordon Food Service, Ajax, ON — Loader / Equipment Assistant | April 2023 – Present

- Faced challenge with Recurring equipment inefficiencies and inaccurate warehouse technical layouts caused downtime and delays.
- Collaborated with maintenance teams to identify failure points, updated 2D technical layouts, and improved mechanical documentation consistency.
- Enhanced workflow efficiency, reduced equipment troubleshooting time, and improved the accuracy of engineering documentation used for repairs.
- Supported safety and continuous improvement initiatives by structuring standardized inspection processes, improving compliance and reducing reporting errors.

Power Development Industrial Plows, India — Mechanical Design Intern | Remote / Contract, 2022

- Snowplow assembly models had dimensional inconsistencies and lacked standardized documentation.
- Re-modeled 3D assemblies and components in SolidWorks, created detailed manufacturing drawings and BOMs, and harmonized CAD documentation with ISO standards.
- Improved manufacturability reduced vendor communication errors, and accelerated design turnaround through standardized practices.
- Collaborated with engineers to implement design rules and CAD standards, supporting better cross-team communication and design review readiness.

Technical Skills

- CAD Tools: SolidWorks, AutoCAD, Autodesk Inventor
- Design & Analysis: 3D/2D Modeling, Static Calculations, GD&T, DFMEA, DFM/A, Tolerance Stack-ups
- Documentation: Engineering Drawings, BOMs, Technical Reports, SAP/PLM Documentation
- Manufacturing Knowledge: Machining, Welding, Sheet Metal, Casting, Additive Manufacturing
- Strong understanding of materials, outdoor rating requirements, and mechanical stress factors
- Cross-functional communication with design, manufacturing, QA, suppliers, and test engineering teams

Education

Mechanical Design Engineering | Centennial College, Toronto, ON | April 2024

Bachelor of Technology in Mechanical Engineering | Chandigarh University, Chandigarh, India | July 2020

Certification: Certified SolidWorks Associate (CSWA)