

KAMALNAIN SINGH

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Professional Summary

Mechanical Engineering Technician with hands-on experience in CAD layout drafting, metrology, and manufacturing projects. Skilled in Autodesk Inventor & AutoCAD, CMM inspection, GD&T measurement, and CNC fundamentals.

Technical Skills

CAD & Drafting: AutoCAD (2D Layouts & Detailing), Autodesk Inventor (3D Modeling & Assemblies), Mechanical Layout Drawings, Dimensioning & Tolerancing

Metrology & Quality: CMM Inspection (Manual & DCC), GD&T Measurement & Reporting, PC-DMIS (Simulation), Blueprint Reading, Precision Measurement (Calipers, Micrometers)

Manufacturing & CNC: Manual CNC Programming (Lathe & Mill), Mastercam (Lathe & Mill Toolpaths), Basic Machining Operations, Jig & Fixture Design, Die Correction

Automation & Robotics: PLC Programming Fundamentals, Industrial Sensors & Actuators, Robotic Pick-and-Place Systems, ABB RobotStudio (Basic)

Safety & Work Practices: WHMIS, Lockout/Tagout Awareness, PPE, Safe Work Practices

Projects

Jig Design for Manufacturing Accuracy 2025

Created 2D and 3D CAD layouts for manufacturing jigs to improve alignment, repeatability, and production accuracy.

Manual CNC Programming (Lathe & Mill) 2025

Developed and executed manual G-code programs for CNC lathe and milling operations including facing, drilling, contouring, and slotting.

CMM Inspection & GD&T Measurement Project 2026

Performed dimensional inspection using CMM and PC-DMIS, generating GD&T-based inspection reports and CAD verification.

Robotic Pick-and-Place Automation System 2026

Programmed a robotic pick-and-place system for automated part handling using basic PLC logic and repeatable automation workflows.

Education

Mechanical Engineering Technician Diploma Sep 2024 – Apr 2026

Niagara College - Welland, ON

- President's Honour Roll (90%+ Term Average)

Work Experience

International Student Assistant

Niagara College - Welland, ON Dec 2025 – Present

- Supported onboarding, orientation, and campus services for international students.
- Maintained accurate documentation and assisted with administrative & immigration processes.

Line Cook

Swiss Chalet - Niagara Falls, ON July 2025 – Present

- Worked in a high-volume, process-driven environment following safety and quality standards.
- Maintained workflow efficiency through teamwork, time management, and procedure compliance.

Deli Production Member

Pilot Flying J - Fort Erie, ON May 2025 – Sep 2025

- Operated in a production-style environment following standardized procedures and safety practices.
- Maintained consistency, hygiene, and efficiency in fast-paced operations.