

Kamalnain Singh

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Professional Summary

Mechanical Engineering Technician with hands-on experience in industrial fluid power systems, PLC-controlled automation, CNC machining, and robotic programming. Strong foundation in hydraulic and pneumatic circuits, mechanical assembly, sensor integration, and automated material handling systems. Seeking Millwright apprenticeship or entry-level mechanical/automation technician role.

Technical Skills

- **Fluid Power:** Hydraulic regeneration, sequence & counterbalance valves, pneumatic DCV control
- **PLC & Automation:** Ladder logic, timers, counters, sensor integration, conveyor sequencing
- **Robotics:** ABB RobotStudio (RAPID), robtargets, offsets, arc motions
- **Machining & Measurement:** CNC setup (lathe & mill), blueprint reading, calipers, micrometers, CMM
- **CAD:** Autodesk Inventor (3D modeling & assemblies), AutoCAD (2D layouts)
- **Safety:** WHMIS, Lockout/Tagout awareness

Projects

1. PLC-Controlled Automated Drilling & Material Handling System

- Programmed ladder logic controlling three pneumatic cylinders and conveyor system
- Implemented timed clamp, drilling hold, and part ejection sequence
- Integrated start/stop seal-in control and sensor-based interlocks
- Designed automatic reset cycle and part-count logic

2. Industrial Hydraulic & Pneumatic Systems Training

- Built and tested hydraulic circuits including regeneration, sequence valves, and counterbalance control
- Adjusted and calibrated pressure relief valves under full-flow deadhead conditions
- Designed pneumatic memory logic and two-hand safety control circuits
- Troubleshoot cylinder extension/retraction faults using schematic analysis

3. Robotic Pick-and-Place Automation System (ABB)

- Programmed modular RAPID routines for part pickup, clamp loading, and bin transfer
- Integrated digital I/O for feeder detection and operator control
- Implemented loop control and system status feedback
- Validated simulation against real-world execution

4. CNC Setup & Machining Operations

- Performed CNC machine setup, tool changes, and workpiece alignment
- Executed facing, drilling, contouring, and slotting operations
- Verified dimensional accuracy using calipers, micrometers, and CMM

Education

Mechanical Engineering Technician Diploma

Niagara College - Welland, ON

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

Sep 2024 – Apr 2026

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.