

RACHENDER PATWAL

Kitchener, Ontario | 519-635-0413 | patwalrachender@gmail.com
Apprenticeship Applicant — Industrial Millwright | UBC Millwright Local 1916

PROFESSIONAL SUMMARY

Mechanically skilled professional with 6+ years of hands-on industrial experience in CNC machining, precision maintenance, and equipment repair seeking a UBC Millwright Local 1916 apprenticeship. Proven ability diagnosing and repairing mechanical systems- bearings, ball screws, hydraulic/pneumatic components, pumps, and valves - with strong skills in precision measurement, blueprint reading, and safety compliance.

RELEVANT MILLWRIGHT SKILLS

Mechanical Systems & Equipment Maintenance

- Replaced and repaired bearings, ball screws, belts, pumps, valves, and hydraulic/pneumatic components on industrial CNC equipment
- Performed precision alignment, calibration, and adjustment of machine tool changers, encoders, probes, and spindle assemblies
- Conducted preventive maintenance including lubrication cycles, filter changes, coolant system servicing, and way-cover inspections
- Diagnosed and resolved root-cause mechanical failures, reducing unplanned equipment downtime in production environments

Precision Measurement & Blueprint Reading

- Proficient with vernier calipers, micrometers, bore gauges, height gauges, and CMM equipment for precision measurement
- Interpreted engineering drawings, blueprints, and GD&T specifications to tight manufacturing tolerances
- Read and applied wiring diagrams, electrical schematics, and equipment documentation for CNC and PLC-controlled machinery

Electrical & Control Systems (Supporting Knowledge)

- Hands-on troubleshooting and replacement of sensors, limit switches, contactors, relays, solenoids, and proximity switches
- Experience with 3-phase electrical equipment, motor drives, and PLC-controlled industrial machines

Safety & Workplace Standards

- Full compliance with PPE standards, Lockout/Tagout (LOTO) procedures, and all applicable workplace safety regulations
- Applied 5S and continuous improvement principles in high-volume manufacturing environments
- Maintained complete maintenance and repair documentation for all work performed

PROFESSIONAL EXPERIENCE

CNC Machinist

Mar 2019 – Sept 2024

Arrow Manufacturing Group (Baumeier Corp. / CGL Manufacturing) | Cambridge / Guelph, ON

- Performed mechanical maintenance and repair on CNC mills and lathes: replaced bearings, ball screws, belts, pumps, valves, and hydraulic/pneumatic components — core Millwright trade skills
- Calibrated and aligned encoders, probes, spindle assemblies, and tool changers to restore machine accuracy and repeatability
- Diagnosed and repaired control system faults by reading wiring diagrams and electrical schematics on PLC-driven CNC equipment
- Executed comprehensive preventive maintenance programs: lubrication, coolant systems, filter changes, alignments, and inspections
- Performed precision quality verification using calipers, micrometers, bore gauges, height gauges, and CMM equipment; applied GD&T principles
- Conducted root-cause analysis on recurring mechanical failures; implemented corrective actions that measurably reduced unplanned downtime

- Maintained strict LOTO and safety compliance; documented all maintenance activities in production records

CNC Operator

Sept 2018 – Feb 2019

Stackpole International | Stratford, ON

- Operated CNC equipment, adjusted tool and work offsets, and maintained specified tolerances during production runs
- Performed first-off and in-process quality inspections using precision measurement tools and CMM equipment
- Completed basic preventive maintenance tasks and followed 5S, LOTO, and workplace safety standards

Owner / Manager

Sept 2024 – Jan 2026

Family Food Mart – Convenience Store | Toronto, ON

- Managed daily business operations, staff scheduling, inventory, and supplier negotiations — demonstrating reliability, leadership, and organizational skills directly transferable to a trade apprenticeship environment

EDUCATION & TRAINING

Ontario College Graduate Certificate – Applied Manufacturing Management

2017 – 2018

Conestoga College | Kitchener, ON

Bachelor of Technology – Mechanical Engineering

2011 – 2015

Punjab Technical University | WES Toronto Recognized

ADDITIONAL INFORMATION

- Canadian Citizen — legally authorized to work in Canada without restrictions
- Available to work across Ontario, including Central Ontario and Bruce Peninsula; open to travel and varied job sites
- Physically capable: able to lift 25+ lbs, work extended periods standing, and operate material handling equipment including pallet movers
- Eager to complete apprenticeship hours and technical training toward Red Seal certification as an Industrial Millwright (433A)