

# DEEP PATEL

## Industrial Millwright Apprentice (433A)

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### PROFESSIONAL SUMMARY

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Motivated Mechanical Engineering graduate and Millwright Techniques certificate holder (Humber Polytechnic, Dec 2025) seeking a registered 433A Industrial Mechanic (Millwright) Apprenticeship in Ontario. Brings 1+ year of hands-on manufacturing industry experience combined with formal training in mechanical systems, hydraulics, pneumatics, rigging, precision alignment, and preventive maintenance. Holds all mandatory Ontario safety certifications including LOTO, WHMIS, and Working at Heights. Proven ability to read and interpret engineering drawings, troubleshoot mechanical equipment, and work safely in fast-paced industrial environments.

### CORE MILLWRIGHT & MECHANICAL SKILLS

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- Mechanical maintenance: bearing installation/removal, shaft alignment, coupling installation, belt & chain drives, gasket sealing, and fastener torquing
- Hydraulics & pneumatics: pumps, cylinders, valves, actuators, FRL units — circuit assembly, schematic reading, and troubleshooting
- Rigging: wire rope, chain/synthetic slings, load calculations, crane signals, machine skidding and levelling
- Precision measurement to  $\pm 0.001"$ : micrometers, vernier callipers, bore gauges, dial indicators, feeler gauges, height gauges, and gauge blocks
- GD&T interpretation, blueprint reading, P&ID schematics, and engineering drawings
- CNC machining (Haas controls, G-code/M-code), Mastercam CAD/CAM, SolidWorks CAD
- Preventive maintenance planning, inspection checklists, work orders, and equipment history logging

### WORK EXPERIENCE

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#### Manufacturing Technician | ANUJ Industries | July 2023 – July 2024

- Operated CNC lathe and milling machines (Haas CNC controls) producing precision mechanical components to  $\pm 0.001"$  tolerances.
- Programmed and modified CNC programs using G-code and M-code; used Mastercam for CAD-to-CNC code generation.
- Manufactured flexible couplings — directly applicable to millwright coupling installation and alignment tasks.
- Performed dimensional inspection using micrometers, vernier callipers, bore gauges, and dial indicators.
- Conducted basic machine maintenance and troubleshooting to minimize production downtime.
- Followed strict LOTO, WHMIS, and shop floor safety procedures throughout all tasks.

#### Manufacturing Intern | ANUJ Industries | June 2021

- Manufactured flexible couplings using CNC machining; generated and executed G-code/M-code programs.
- Maintained dimensional accuracy and quality standards using precision measuring instruments.

#### Production Intern | Rotomag Motors & Controls Pvt. Ltd. | May 2022 – June 2022

- Supported motor armature manufacturing and assembly line operations.
- Applied mechanical engineering knowledge to real-world production and maintenance environments.

### EDUCATION

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#### Millwright Techniques Certificate — December 2025

Humber Polytechnic College, Ontario, Canada

*Coursework: Industrial machinery maintenance, hydraulics, pneumatics, rigging, shaft alignment, bearing installation, belt and chain drives, mechanical seals, preventive maintenance systems, blueprint reading, and industrial safety.*

## **Post Graduate Certificate — Practical Elements of Mechanical Engineering — April 2025**

Fanshawe College, Ontario, Canada

*Coursework: CNC machining, precision measurement, lathe and milling operations, manufacturing processes, mechanical assembly, GD&T, quality control, and SolidWorks CAD.*

## **Bachelor of Technology — Mechanical Engineering — June 2023**

Birla Vishvakarma Engineering College, India

*Coursework: Thermodynamics, fluid mechanics, machine design, manufacturing technology, strength of materials, kinematics & dynamics of machinery, hydraulics and pneumatics.*

## **HANDS-ON PROJECTS (10+ PROJECTS — FANSHAWE & HUMBER)**

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### **Advanced Lathe Threading Project**

- Machined internal and external threads to precise specifications using CNC lathe with Haas controls — directly applicable to millwright thread repair and fastener work.
- Applied GD&T; verified finished components using thread gauges and micrometers.

### **Millwright Techniques Lab Projects — Humber Polytechnic**

- Bearing installation and removal — practice on ball, roller, and sleeve bearings using correct press, heating, and puller techniques.
- Shaft and coupling alignment exercises using dial indicators — identified and corrected angular and parallel misalignment.
- Belt, chain, and gear drive assembly — measured tension, calculated gear ratios, and verified alignment.
- Hydraulic and pneumatic circuit assembly and troubleshooting — built and diagnosed circuits from schematic drawings.
- Machine levelling and precision alignment using precision levels, feeler gauges, and dial indicators.
- Preventive maintenance scheduling — developed PM checklists and inspection logs for simulated plant equipment.

## **SAFETY CERTIFICATIONS & COMPLIANCE**

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- ✓ Lockout / Tagout (LOTO) — Energy Isolation Procedures
- ✓ WHMIS 2015 (Workplace Hazardous Materials Information System)
- ✓ Working at Heights — Ontario Ministry of Labour Approved

## **PROFESSIONAL ATTRIBUTES**

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- Strong mechanical aptitude developed through formal education and 1+ year of hands-on manufacturing experience
  - Reliable, punctual team player — comfortable with rotating shifts, overtime, and industrial plant environments
  - Committed to continuous learning and achieving full 433A journeyman certification
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