

Hayden Roth

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SUMMARY

Early career **CNC machining** candidate with supervised lab experience in machine setup, **blueprint reading**, **precision measurement**, tool selection, feeds and speeds, and dimensional inspection. Training includes safe operation of CNC equipment, workholding, turning and milling exercises, and production of precision aluminum parts from technical drawings. Mechanical troubleshooting projects built practical skill diagnosing faults, checking component condition, documenting repair steps, and confirming equipment operation after service. Applies geometry, trigonometry, arithmetic, fractions, decimals, and unit conversions during process planning and inspection. Communicates clearly during team handoffs, maintains orderly work areas, and asks focused questions before unfamiliar operations. Prepared for structured **first shift** training, later shift work, overtime, weekend schedules, and continued growth in precision manufacturing.

EDUCATION

Certificate in CNC Machining Technology2026
Heartland Community College GPA: 4.0Normal, IL

Coursework: CNC setup, blueprint reading, precision measurement, shop mathematics, mechanical troubleshooting

TECHNICAL SKILLS

- **CNC Equipment:** CNC mills, CNC lathes, machine controls
- **Measurement Tools:** Micrometers, calipers, inspection sheets
- **Blueprint Interpretation:** Technical drawings, dimensions, tolerances
- **Machining Setup:** Workholding, tool order, setup checks
- **Cutting Parameters:** Feeds, speeds, spindle speed
- **Cutting Tools:** Turning tools, milling tools, tool condition
- **Shop Mathematics:** Geometry, trigonometry, fractions, decimals
- **Mechanical Repair:** Hand tools, component inspection, reassembly
- **Quality Inspection:** Dimensional checks, conformity, functional checks
- **Safety Practices:** OSHA 10, housekeeping, safety checks

SKILLS

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|-------------------------|--------------------|--------------------|------------------------------|
| • CNC Machining | • Micrometers | • Shop Mathematics | • Mechanical Troubleshooting |
| • Machine Setup | • Calipers | • Geometry | • Safety |
| • Blueprint Reading | • Feeds and Speeds | • Trigonometry | • Teamwork |
| • Precision Measurement | • Tool Selection | • Equipment Repair | |

EXPERIENCE

CNC Machining Trainee LabJanuary 2026 - September 2026
Student LabNormal, IL

Completed supervised CNC training covering safety checks, setup, workholding, tooling, inspection, and production of practice parts. Supported a structured lab environment through careful documentation, clear communication, and disciplined measurement.

- Completed supervised CNC assignments from safety checks through setup and precision practice parts.
- Read **blueprints** for **dimensions**, tolerances, hole locations, and surface requirements during machining assignments.
- Measured finished features with **micrometers** and calipers, then compared results against specified **tolerances**.
- Calculated feeds, **speeds**, **geometry**, and unit conversions before supervised machine operation.
- Selected turning and milling tools based on material, feature geometry, and operation sequence.
- Maintained clean work areas and escalated setup questions before unfamiliar machining operations.

Precision Part Manufacturing ProjectAugust 2025 - December 2025
Course ProjectNormal, IL

Produced a multi feature aluminum training component from a technical drawing, combining process planning, supervised CNC operation, inspection, **troubleshooting**, and clear presentation of manufacturing decisions.

- Produced a multi feature aluminum component from a technical drawing and planned operation sequence.
- Created a supervised CNC process plan covering workholding, tool order, speeds, **feeds**, and inspection points.
- Used **calipers** and micrometers to verify **dimensions** and record results on an inspection sheet.
- Applied geometry, **trigonometry**, **fractions**, decimals, and unit conversions during drawing review.
- Diagnosed dimensional inconsistency by checking tool condition, workholding, measurement technique, and programmed offsets.

- Presented completed parts, inspection records, and process notes explaining setup decisions affecting conformity.

Mechanical Equipment Troubleshooting Project

January 2025 - May 2025

University Project

Normal, IL

Investigated faults on mechanical and automotive style training assemblies through supervised inspection, measurement, disassembly, repair documentation, reassembly, and functional checks within rotating student teams.

- Diagnosed faults on mechanical and automotive style assemblies using inspection and service information.
- Disassembled components under supervision, identified wear and fit concerns, and documented findings.
- Used hand tools and **measurement instruments** to verify component condition and reassembly requirements.
- Traced simulated failures from reported symptoms through likely mechanical causes using evidence based troubleshooting.
- Reassembled training equipment, completed functional checks, and documented restored operating performance.
- Worked in rotating student teams requiring clear handoffs, housekeeping, and **safety** checks before release.

PROJECTS

Precision Aluminum Part Study 📅 2025

A hands on manufacturing study turned a technical drawing into a finished training component. Process planning, tool selection, inspection, and troubleshooting connected classroom mathematics with practical CNC work.

Mechanical Fault Diagnosis Study 📅 2025

A supervised troubleshooting study followed symptoms through inspection, measurement, repair, and functional testing. Each step strengthened confidence in careful diagnosis and safe equipment handling.

LEADERSHIP & AWARDS

- Technical Education Achievement Award, 2026, recognized strong progress in CNC machining coursework and practical shop performance.
- Dean's List, 2025, recognized consistent academic achievement during mechanical and manufacturing studies.

CERTIFICATIONS

- OSHA 10 Hour General Industry 📅 2026
- NIMS Measurement, Materials and Safety Coursework 📅 2026

PROFESSIONAL AFFILIATIONS

- Peer Shop Safety Ambassador, 2026, supported classmates through clear safety reminders and careful preparation before lab work.
- Manufacturing Lab Open House Demonstrator, 2026, explained CNC training activities and measurement practices to visiting attendees.

LANGUAGES

- English (Native)
- Spanish (Beginner)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST