

Zachary Thibodeaux

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Work Experience

CNC Machinist

Renaissance Scientific | Boulder, CO

March 2026 to May 2026

- Modelled and CAM'd simple parts and tested programs on a Tormach machine
- Worked with Fusion360
- Kept machines and desk area clean and well-maintained
- Machined different materials including PEEK, MACOR, Copper, Titanium
- Worked with engineering to come up with machining plans for different parts

CNC Machinist

Excelitas Technologies | Boulder, CO

January 2025 to March 2026

- Operated and maintained CNC machines to produce high-quality precision parts according to specifications
- Conducted thorough inspections of finished products using precision measuring instruments such as calipers and micrometers
- Closely monitored machine operations for any signs of malfunctions or deviations from the planned process
- Made necessary adjustments to machine settings to maintain product quality and meet production targets
- Demonstrated expertise in reading technical drawings, blueprints, and work instructions for proper machining procedures
- Maintained a clean and organized work area to ensure safety compliance and maximize efficiency during production runs
- Trained new machinists on machine operation techniques, safety protocols, and quality control standards
- Closely followed all safety guidelines when operating machinery or handling hazardous materials

CNC Machinist

Advanced Machining Inc. | Longmont, CO

August 2024 to October 2024

Advanced Machining Operations: Set up and operate complex CNC and manual machining equipment, ensuring high precision and quality in production.

Programming Skills: Write and modify CNC programs to optimize machining processes and improve efficiency.

CNC Machinist
Manes Machine & Engineering | Fort Collins, CO
November 2022 to August 2024

Machine Operation: Set up and operate various machining tools, such as lathes, milling machines, and grinders, to produce precision parts.

Blueprint Interpretation: Read and interpret technical drawings and specifications to ensure accurate production of components.

Quality Control: Conduct measurements and inspections of finished products to verify conformance to tolerances and specifications.

Maintenance and Troubleshooting: Perform routine maintenance on machinery and troubleshoot minor issues to ensure optimal performance and minimize downtime.

Education

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Plano Senior High School | Plano, TX
August 2007 to June 2011

High school diploma

Skills

Computer operation Visual inspection for quality control Dimensional inspection Trigonometry Mechanical troubleshooting CNC machine setup Measuring instruments CNC quality inspection Titanium Mechanical equipment calibration Math Machine drilling R&D facility experience Safe work practices Hand tools Computer literacy Microsoft Office CNC programming Manufacturing company experience Tooling Communication skills Computer skills Manufacturing CNC tooling Mechanical blueprint interpretation Inspection tools Contract manufacturing experience Surface finish measurement Writing skills Optical comparators Machine finishing CAD Bore gauges Milling machines First article inspection Aluminum Attention to detail Forklift Dimensional measurements Fanuc Micrometer Fabrication shop experience High-volume production experience Collaboration with manufacturing teams Assembly Organizational skills Machine maintenance M-code Continuous improvement Dial indicators Height gauges Milling industry experience Fusion 360 Equipment setup (production tasks) Milling CNC machining Precision measurement in machining Blueprint reading Quality inspection Steel Metal machining GD&T Machine setup Machining tool setup CNC milling machine Prototype development experience Turning CNC Mechanical Knowledge Precision Measuring Instruments Time management Machining - Machinist experience (3-5 years) Calipers Measurement (quality control) Journeyman machinist experience CNC lathe Grinding Power tools Machinist apprentice experience 5-axis CNC machine Lathe Clean workspace maintenance Composite materials

Certifications and Licenses

Driver's License