

Ian Johnston

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SUMMARY

CNC Machinist with five years of aerospace and precision manufacturing experience producing close tolerance components from blueprints, specifications, **setup sheets**, and standard work. Operates **CNC milling centers**, loads parts, starts cycles, changes tools, and makes approved **cutter compensation** and **offset adjustments**. Uses calipers, micrometers, indicators, comparators, gages, jigs, fixtures, and templates for dimensional, geometric, and surface finish inspection. Recognizes tool wear, machine alarms, fixture concerns, and abnormal cutting conditions before questionable parts advance. Completes production travelers, inspection records, tool change entries, and computer terminal documentation accurately. Supports safe, orderly work areas and consistent processes through practical tooling knowledge, shop mathematics, quality focus, and clear communication with leads, inspectors, and production teams.

EXPERIENCE

CNC Machinist II

July 2024 to Present

Sonoran Precision Aerospace

Tempe, Arizona

Operate CNC milling centers for aerospace components under released setup documentation, with ownership of part orientation, tooling, inspection points, production records, and safe response to process abnormalities.

- Operated CNC milling centers from setup sheets, blueprints, and **work instructions** for aerospace components.
- Verified first piece dimensions with micrometers, calipers, indicators, and gages before production continued.
- Adjusted cutter compensation and work offsets within approved limits, maintaining dimensional and **geometric requirements**.
- Monitored **end mills**, drills, taps, reamers, **chamfer tools**, and inserts for wear or damage.
- Investigated **machine alarms** and **surface finish** concerns through setup checks and tooling reviews.
- Recorded production travelers, inspection results, tool changes, and computer terminal entries accurately each shift.

CNC Machinist

January 2023 to June 2024

Desert Ridge Manufacturing

Phoenix, Arizona

Produced close tolerance milled parts from engineering drawings and specifications, supporting fixture loading, cycle operation, staged inspection, tooling review, and repeat job consistency.

- Produced close tolerance milled parts from drawings, **specifications**, geometric callouts, and finish requirements.
- Loaded **fixtures** and workpieces, initiated machining cycles, and verified controls against setup documentation.
- Performed staged inspections with **comparators**, indicators, **micrometers**, calipers, and gages during production.
- Isolated nonconforming material after identifying chipped **inserts**, worn cutters, and loose fixtures.
- Applied **shop mathematics** and dimensional conversions when communicating measurement discrepancies to production personnel.
- Organized workstations and documented tooling observations, improving consistency across repeat machining jobs.

Machine Operator, CNC Machining Technician

October 2021 to December 2022

Copper State Toolworks

Gilbert, Arizona

Supported CNC milling operations for precision metal components under experienced guidance, building capability in blueprint interpretation, fixture loading, inspection, tooling preparation, documentation, and safe machine operation.

- Supported **CNC milling** operations by following setup instructions, **standard work**, and safety procedures.
- Read **blueprints**, **schematics**, forms, and specifications to confirm materials, dimensions, and checkpoints.
- Loaded parts into jigs and fixtures, verified clamping, and initiated approved machine cycles.
- Observed machine operation for alarms, abnormal **cutting conditions**, and visible part concerns.
- Used calipers, micrometers, gages, and **indicators** to check dimensions and record results.
- Prepared templates, fixtures, standard tooling, and replacement cutters after checking condition and size.

PROJECTS

Repeat Job Setup Consistency 📅 2024

Documented recurring tooling observations and workstation practices for repeat milling jobs, helping production teams maintain orderly setups and consistent inspection routines.

Aerospace Component Inspection Workflow 📅 2025

Supported a controlled inspection workflow using setup sheets, precision gages, inspection records, and escalation steps for dimensional and surface finish concerns.

LEADERSHIP & AWARDS

- NIMS Measurement, Materials and Safety Credential, earned in 2022.

- NIMS CNC Milling Setup and Programming Level I Credential, earned in 2023.
- Recognized by production teams for identifying tooling concerns before questionable parts advanced.

EDUCATION

High School Diploma

Hamilton High School GPA: 3.5

2021
Chandler, Arizona

Coursework: Blueprint reading, shop mathematics, manufacturing safety, computer operations

CERTIFICATIONS

- NIMS Measurement, Materials and Safety Credential 2022
- NIMS CNC Milling Setup and Programming Level I Credential 2023

TECHNICAL SKILLS

- **CNC Milling Equipment:** CNC milling centers, machine controls, cycle operation
- **Blueprint Documentation:** Blueprints, schematics, specifications
- **Setup Documentation:** Setup sheets, work instructions, standard work
- **Cutting Tools:** End mills, drills, taps
- **Specialty Tooling:** Reamers, chamfer tools, inserts
- **Precision Measurement:** Calipers, micrometers, gages
- **Inspection Instruments:** Indicators, comparators, dimensional inspection
- **Workholding Systems:** Jigs, fixtures, templates
- **Machine Adjustments:** Cutter compensation, work offsets, tool changes
- **Quality Documentation:** Inspection records, production travelers, procedural forms
- **Shop Operations:** Shop mathematics, terminal operations, housekeeping
- **Manufacturing Safety:** Safety procedures, safe processing, orderly work areas

SKILLS

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|---------------------|-----------------------------|----------------------|-----------------------|
| • CNC milling | • Precision inspection | • Shop mathematics | • Tool wear detection |
| • Blueprint reading | • Cutter compensation | • Machine controls | • Fixture loading |
| • Setup sheets | • Offset adjustments | • Production records | • Computer terminals |
| • Tool changes | • Surface finish inspection | • Safety procedures | |

PROFESSIONAL AFFILIATIONS

- Aerospace precision manufacturing teams, Arizona.
- CNC machining and quality inspection workgroups, Arizona.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST