

Legend Callahan

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SUMMARY

Early career manufacturing candidate with hands on **mechanical aptitude** developed through advanced manufacturing coursework, supervised extrusion simulations, equipment teardown exercises, vehicle maintenance, and practical lab work. Completed structured training in safe startup and shutdown procedures, **die installation**, changeover planning, dimensional inspection, troubleshooting, production records, quality checks, housekeeping, and **equipment maintenance**. Uses hand tools, micrometers, fixtures, and gauges with care, then records output, quality findings, and downtime in spreadsheet templates. Brings clear communication, dependable teamwork, **basic computer skills**, and strong attention to product quality. Mechanical reasoning supports steady progress through skilled extrusion training, while supervised fault scenarios have built confidence identifying operating problems and selecting safe adjustment steps. Prepared to contribute through disciplined learning, accurate documentation, and reliable manufacturing practices.

EDUCATION

Diploma in Advanced Manufacturing Technology2026
Sinclair Community College GPA: 4.0Dayton, OH

Coursework: Extrusion Operations, Machine Maintenance, Dimensional Inspection, Manufacturing Quality

TECHNICAL SKILLS

- **Extrusion Operations:** Extrusion lines, die installation, line startup
- **Machine Setup:** Changeovers, teardown, component placement
- **Measurement Equipment:** Micrometers, fixtures, gauges
- **Mechanical Tools:** Hand tools, fasteners, alignment
- **Quality Control:** Dimensional inspection, tolerance checks, defect review
- **Production Records:** Output logs, quality logs, downtime logs
- **Equipment Maintenance:** Preventive maintenance, wear inspection, failure modes
- **Troubleshooting:** Visual checks, process readings, root cause analysis
- **Safety Practices:** OSHA 10, housekeeping, tool control
- **Computer Applications:** Spreadsheets, structured data entry, technical reports

SKILLS

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|--------------------------|---------------------|--------------------------|-------------------------|
| • Mechanical aptitude | • Equipment startup | • Dimensional inspection | • Basic computer skills |
| • Extrusion fundamentals | • Troubleshooting | • Production tracking | • Manufacturing safety |
| • Machine setup | • Hand tools | • Quality documentation | • Teamwork |
| • Die changeover | • Micrometers | • Downtime logging | |

EXPERIENCE

Extrusion Operator Trainee SimulationJanuary 2026 - September 2026
Student LabDayton, OH

Completed supervised extrusion training simulations in a technical lab, practicing safe line operation, setup, inspection, troubleshooting, documentation, and shutdown procedures. Built practical readiness through instructor feedback and repeated operating assessments.

- Completed supervised startup simulations, following safe operating zones and shutdown procedures during practical lab sessions.
- Practiced **die installation** and changeover planning, verifying component placement before supervised **equipment startup** exercises.
- Measured sample dimensions with **micrometers**, **fixtures**, and gauges, recording findings against assigned specification limits.
- Diagnosed simulated machine conditions through visual checks and process readings, then explained safe adjustment steps.
- Maintained production, quality, and **downtime** logs in spreadsheet templates, improving accuracy with basic computer documentation.
- Applied lab safety, **housekeeping**, tool control, and quality procedures throughout final operating assessments.

Manufacturing Equipment Reliability ProjectAugust 2025 - December 2025
Capstone ProjectDayton, OH

Built a supervised reliability plan for a small training production line, connecting component inspection, maintenance planning, troubleshooting, documentation, and equipment quality. Presented findings during a final practical demonstration and class review.

- Mapped mechanical components and wear points, creating inspection intervals for a supervised training production line.
- Disassembled and reassembled mechanical assemblies with **hand tools**, verifying alignment, fasteners, and guarding requirements.
- Used **gauges** and micrometers to identify dimensional variation, recording samples outside assigned tolerance limits.
- Created **troubleshooting** worksheets linking observable symptoms with likely causes and safe verification steps.

- Corrected documentation gaps after repeated setup checks and instructor review before final practical demonstration.
- Presented maintenance findings to classmates, connecting accurate records with **product quality** and equipment reliability.

Mechanical Systems and Quality Project

January 2025 - May 2025

Course Project

Dayton, OH

Investigated a recurring defect in a tabletop **manufacturing** simulation, using measurement records, setup review, hand tools, and supervised root cause analysis to improve repeatability and **quality documentation**.

- Investigated a recurring simulation defect by reviewing setup variables, sample dimensions, and operator observations.
- Adjusted supervised mechanical fixtures with **hand tools**, following written procedures and restoring specified station setup.
- Collected dimensional readings across sample runs, organizing gauge results in a spreadsheet for tolerance comparison.
- Created production logs covering output, rejected samples, setup changes, and downtime events for traceability.
- Tested likely setup, material, and measurement corrections under instructor supervision using root cause reasoning.
- Documented methods and results in a technical report emphasizing safe work and repeatable quality checks.

PROJECTS

Preventive Maintenance Planning 📅 2025

Created a supervised maintenance planning exercise for training equipment, mapping wear points, inspection intervals, failure modes, safe checks, and documented corrective actions.

Dimensional Quality Records 📅 2025

Built a spreadsheet based quality record for sample runs, capturing measurements, tolerance comparisons, rejected units, setup changes, output, and downtime.

LEADERSHIP & AWARDS

- Dean's List recognition, 2025, reflecting consistent academic performance in advanced manufacturing coursework.
- Advanced Manufacturing Lab Achievement Award, 2026, recognizing practical skill and careful technical work.
- Peer Lab Safety Mentor, Advanced Manufacturing Program, supporting classmates with safe work habits and lab procedures.

CERTIFICATIONS

- OSHA 10 Hour General Industry 📅 2026
- Manufacturing Safety Fundamentals 📅 2025

PROFESSIONAL AFFILIATIONS

- Advanced Manufacturing Program, Sinclair Community College, with focus on practical equipment and quality training.
- Student Equipment Maintenance Team, contributing to supervised inspection, tool use, and equipment readiness activities.

LANGUAGES

- English (Native)
- Spanish (Beginner)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST