

Alessandra Bennett

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SUMMARY

Early career mechanical engineering candidate completing a bachelor's degree with supervised experience in **manufacturing processes**, engineering documentation, quality fundamentals, and production problem solving. Academic work has built practical familiarity with CAD, **engineering drawings**, measurement, **process planning**, basic fixture concepts, prototype fabrication, and mechanical assembly. Capstone and laboratory projects included manufacturing plans, work instructions, dimensional reviews, controlled procedures, root cause analysis, and technical presentations. Coursework and hands on project work connect design intent with shop oriented execution, helping translate requirements into clear, repeatable steps. Collaborative work with faculty, laboratory supervisors, engineering peers, and fabrication stakeholders has strengthened technical communication and disciplined project follow through. Ready to contribute curiosity, sound mechanical fundamentals, and dependable learning habits within **supervised manufacturing engineering training**.

EDUCATION

Bachelor's Degree in Mechanical Engineering 2027
University of North Carolina at Charlotte GPA: 0 *Charlotte, NC*
Coursework: Manufacturing processes, CAD, engineering drawings, dimensional measurement, mechanical systems

TECHNICAL SKILLS

- **Computer Aided Design:** CAD, Autodesk CAD, mechanical modeling
- **Engineering Documentation:** Engineering drawings, work instructions, controlled procedures
- **Manufacturing Processes:** Machining, assembly, prototype fabrication
- **Measurement Methods:** Dimensional measurement, inspection, measurement records
- **Process Planning:** Manufacturing plans, build sequencing, process evaluation
- **Quality Methods:** Quality fundamentals, dimensional review, corrective changes
- **Problem Solving:** Root cause analysis, structured problem solving, technical investigation
- **Mechanical Design:** Mechanical systems, fixture concepts, design evaluation
- **Production Readiness:** Build readiness, production problem solving, execution steps
- **Technical Communication:** Technical reports, technical reviews, project presentations
- **Laboratory Practices:** Supervised laboratories, documented procedures, laboratory reviews
- **Project Coordination:** Schedule discipline, configuration discipline, stakeholder coordination

SKILLS

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|---------------------------|---------------------------|---------------------------|------------------------------|
| • Manufacturing Processes | • Work Instructions | • Root Cause Analysis | • Production Problem Solving |
| • CAD | • Dimensional Measurement | • Technical Documentation | • Process Documentation |
| • Engineering Drawings | • Mechanical Assembly | • Prototype Fabrication | • Technical Communication |
| • Process Planning | • Fixture Concepts | • Quality Fundamentals | |

EXPERIENCE

Manufacturing Engineering Capstone Student January 2026 to Present
Capstone Project *Asheville, NC*

Supports a supervised capstone focused on manufacturing planning, prototype readiness, engineering documentation, dimensional review, and technical communication. Coordinates project work with faculty, engineering peers, quality contributors, and fabrication stakeholders while maintaining clear records and controlled revisions.

- Developed a manufacturing plan translating CAD geometry and drawing requirements into an ordered prototype build sequence.
- Created **work instructions** that converted engineering requirements into repeatable steps for supervised prototype assembly.
- Reviewed **CAD, engineering drawings**, and dimensional data to assess hardware readiness and identify practical changes.
- Applied root cause methods during technical investigations, then recorded corrective changes within controlled documentation.
- Coordinated engineering, quality, fabrication, and laboratory input through scheduled reviews and configuration records.
- Presented project risks and recommendations through written reports and technical reviews for informed engineering decisions.

Manufacturing Processes Laboratory Student August 2025 to December 2025
Student Lab *Asheville, NC*

Completed supervised laboratory training covering machining, assembly, measurement, process documentation, and mechanical component evaluation. Applied classroom methods in structured exercises that connected manufacturing processes with safe execution, accurate records, and clear technical reporting.

- Completed supervised machining exercises using documented procedures, measurement records, and controlled laboratory reviews.
- Created process documentation that organized component assembly steps for repeatable supervised execution.
- Used CAD references and **engineering drawings** during dimensional checks of fabricated mechanical components.
- Investigated laboratory issues with root cause methods and documented findings for instructor review.
- Coordinated team tasks with laboratory peers while maintaining schedules, records, and configuration discipline.
- Presented measurement results and process observations through concise technical reports and classroom discussions.

Mechanical Design and Manufacturing Project Student
University Project

January 2025 to May 2025
Asheville, NC

Completed a supervised mechanical design project involving CAD development, prototype fabrication, engineering drawings, dimensional inspection, and process evaluation. Connected design decisions with manufacturing practicality while communicating findings through reports, reviews, and team presentations.

- Designed a small mechanical prototype using CAD, **engineering drawings**, supervised fabrication, and dimensional inspection.
- Created assembly instructions that clarified build order, inspection points, and required documentation for review.
- Compared measured dimensions with drawing requirements to identify fit concerns before final project presentation.
- Used structured problem solving to investigate prototype issues and document practical corrective recommendations.
- Coordinated fabrication and inspection tasks with student teammates under faculty supervision and scheduled reviews.
- Presented design risks, measurement findings, and manufacturing recommendations through a final technical review.

PROJECTS

Prototype Process Planning Study 📅 2026

Created a supervised process plan for a small mechanical assembly, linking CAD geometry, drawing requirements, work instructions, dimensional checks, and prototype build sequencing.

Machining Measurement Laboratory Review 📅 2025

Evaluated supervised machining and measurement exercises, then organized process observations, dimensional records, assembly notes, and technical recommendations for classroom review.

LEADERSHIP & AWARDS

- Dean's List, 2025
- Undergraduate Design Showcase Recognition, 2026
- Peer Mentor, First Year Engineering Study Group, 2025 to Present

CERTIFICATIONS

- Autodesk CAD Fundamentals 📅 2026
- Manufacturing Engineering Fundamentals 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Campus Maker Community, 2024 to Present
- Peer Mentor, First Year Engineering Study Group, 2025 to Present

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST