

Daisy Ware

☎ (978) 555-2634 ✉ daisy.ware@example.com 🔗 linkedin.com/example/daisyware 📍 Lowell, MA 01852

SUMMARY

Industrial Engineering student with supervised experience analyzing **manufacturing process data**, studying variation, and recommending practical improvements for simulated medical device production. Academic projects applied **statistical process control**, Excel, Python, Power BI, process mapping, inventory modeling, and structured engineering documentation. Work included 1,200 cycle time and quality observations, 300 measured components, revised work instructions, mock validation protocols, and production continuity analysis. Research and project teams used clear records, defined acceptance criteria, and traceable evidence when evaluating process changes. Coursework introduced GMP concepts, FDA regulated manufacturing, NPI planning, cost improvement, **continuous improvement**, project management, and **business continuity**. Comfortable with Word, Excel, PowerPoint, and Outlook for technical studies, presentations, schedules, and communication. Permanently authorized to work in the United States without sponsorship and prepared for full time onsite engineering work.

EDUCATION

Bachelor's Degree in Industrial Engineering
University of Massachusetts Lowell GPA: 3.6
Coursework: Statistical Process Control, Manufacturing Systems, Supply Chain Engineering, Project Management

2026
Lowell, MA

TECHNICAL SKILLS

- **Microsoft Office:** Word, Excel, PowerPoint, Outlook
- **Data Analysis:** Python, Excel, Power BI
- **Quality Methods:** SPC, process capability, control charts
- **Manufacturing Systems:** process mapping, value streams, work in process
- **Validation Documentation:** validation protocols, acceptance criteria, engineering studies
- **Regulated Manufacturing:** GMP, FDA quality systems, medical devices
- **Process Improvement:** Six Sigma, continuous improvement, cost improvement
- **Supply Chain Planning:** inventory modeling, capacity analysis, material flow
- **Project Management:** milestones, risk registers, action owners
- **Technical Communication:** work instructions, technical reports, presentations
- **Production Quality:** defect analysis, traceability, inspection points
- **Manufacturing Analysis:** cycle time, process variation, capability indicators

SKILLS

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|-------------------------------|------------------------|--------------------------|----------------------|
| • Supply Chain | • Medical Devices | • Continuous Improvement | • Project Management |
| • Process Analysis | • Validation Protocols | • Business Continuity | • Power BI |
| • Statistical Process Control | • Engineering Studies | • Cost Improvement | • Python |
| • GMP Concepts | • Work Instructions | • NPI Concepts | |

EXPERIENCE

Industrial Engineering Manufacturing Project Student
University Project

January 2026 - May 2026
Lowell, MA

Supported a five student manufacturing analysis project focused on process stability, quality evidence, **work instructions**, and flow improvement within a simulated medical device assembly operation.

- Analyzed 1,200 cycle time observations with **Excel** and **Python**, creating a reproducible process analysis dataset.
- Applied **statistical process control** charts to separate common cause variation from assignable production events.
- Built **Power BI** dashboard tracking throughput, defects, work in process, and stability across four assembly steps.
- Revised constrained assembly work instruction with sequence details, inspection points, and traceable data requirements.
- Compared process change concepts through repeated simulations, recommending improved flow with preserved quality checks.
- Presented validation evidence and operational findings to 24 classmates, answering questions about feasibility and variation.

Manufacturing Quality Research Assistant
University Research Lab

September 2025 - December 2025
Lowell, MA

Contributed under faculty supervision to manufacturing quality research involving measurement variation, process capability, controlled records, and introductory regulated production practices.

- Recorded measurements for 300 manufacturing samples, maintaining organized evidence for supervised process capability research.

- Created Excel data capture templates with validation controls, improving consistency across student laboratory records.
- Used Python to evaluate distributions, control limits, and capability indicators against manual calculations.
- Drafted engineering study sections covering test methods, sampling, equipment setup, and results for faculty review.
- Applied GMP and FDA quality system concepts to a case exercise involving traceability and document control.
- Presented research findings at an undergraduate showcase, explaining methods and results to faculty reviewers.

Supply Chain Process Improvement Project Student

January 2025 - May 2025

Capstone Project

Lowell, MA

Modeled a classroom manufacturing value stream covering materials, staging, assembly, inspection, release, inventory, capacity, continuity, and cost improvement decisions.

- Mapped material and information flow from incoming components through simulated finished goods release activities.
- Built Excel inventory and capacity model for 18 component types, identifying production continuity constraints.
- Organized project milestones, risks, owners, and review dates using foundational **project management** methods.
- Drafted mock validation protocol for workstation change with acceptance criteria and required evidence.
- Evaluated **cost improvement** options alongside quality and continuity needs, reducing unnecessary simulated material handling.
- Delivered technical report and **PowerPoint** briefing connecting observations, controls, recommendations, and implementation steps.

PROJECTS

Medical Device Validation Planning Study 📅 2026

Prepared a simulated validation plan for a workstation change, defining objectives, evidence, acceptance criteria, documentation, and release considerations within a regulated manufacturing scenario.

Manufacturing Capacity and Continuity Model 📅 2025

Created an Excel model covering component inventory, demand scenarios, capacity constraints, and production continuity risks across a classroom supply chain value stream.

LEADERSHIP & AWARDS

- Dean's List, 2025
- Undergraduate Research Showcase Recognition, 2026
- Engineering Academic Achievement Scholarship, 2026

CERTIFICATIONS

- Microsoft Learn, Analyze Data with Power BI 📅 2026
- Coursera, Six Sigma Principles 📅 2026

PROFESSIONAL AFFILIATIONS

- Institute of Industrial and Systems Engineers Student Chapter, Project Team Member, 2025 - Present
- Engineering Peer Study Group, Volunteer Facilitator, 2026 - Present

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST