

# Yasmin Grimes

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## SUMMARY

Mechanical engineering student preparing for a Spring 2027 development engineering co op, with hands on academic work in **medical device** manufacturing, process development, **supply chain** analysis, and **design for manufacturability**. Maintains a 3.6 GPA while building Excel analysis tools, evaluating experimental data, writing controlled protocols, and documenting technical findings. Capstone and research work includes CAD reviews, fixture concepts, dimensional measurement, cycle observations, statistical analysis, root cause reasoning, calibrated equipment, and material traceability. Team leadership has included coordinating a five student supply chain project, presenting research findings, and supporting campus service activities. This work has reinforced a practical interest in reliable manufacturing, supplier performance, clear requirements, and knowledge transfer. Available for full time Spring 2027 work while remaining enrolled, with **permanent U.S. work authorization** without sponsorship.

## EDUCATION

**Bachelor's Degree in Mechanical Engineering**  
The Ohio State University   GPA: 3.6  
*Coursework: Manufacturing processes, design for manufacturability, statistical analysis, medical device development*

2028  
Columbus, OH

## TECHNICAL SKILLS

- **Data Analysis Tools:** Microsoft Excel, Excel dashboards, descriptive statistics
- **Computer Aided Design:** CAD, fixture design, tolerance review
- **Manufacturing Engineering:** Manufacturing processes, assembly concepts, process capability
- **Process Development:** Process protocols, acceptance criteria, experimental planning
- **Medical Device Engineering:** Medical device development, component requirements, device manufacturing
- **Quality Methods:** Root cause analysis, deviation records, inspection flow
- **Measurement Systems:** Dimensional measurement, cycle measurement, calibrated equipment
- **Technical Documentation:** Controlled documentation, revision control, technical reports
- **Supply Chain Analysis:** Supplier analysis, lead time analysis, manufacturing risk
- **Data Presentation:** Technical figures, research presentations, engineering reports
- **Design for Manufacturing:** Design for manufacturability, assembly access, fixture considerations

## SKILLS

- |                                |                           |                              |                           |
|--------------------------------|---------------------------|------------------------------|---------------------------|
| • Process development          | • Microsoft Excel         | • Supplier analysis          | • Root cause analysis     |
| • Design for Manufacturability | • CAD                     | • Statistical analysis       | • Technical presentations |
| • Protocol writing             | • Technical reporting     | • Controlled documentation   | • Material traceability   |
| • Process data analysis        | • Manufacturing processes | • Medical device development |                           |

## EXPERIENCE

**Development Engineering Student, Capstone Project**  
The Ohio State University

January 2026 - Present  
Columbus, OH

Supports a supervised capstone effort focused on a benchtop assembly concept for a simulated **medical device** component. Converts requirements into fixture features, studies process behavior, prepares **controlled documentation**, and presents findings for faculty and student review.

- Developed a benchtop assembly concept translating component requirements into manufacturable fixture features
- Built **Excel** analysis tools organizing more than 300 dimensional and cycle observations
- Wrote supervised process protocols defining equipment, measurements, **acceptance criteria**, and reporting
- Applied **design for manufacturability** during **CAD** reviews, identifying access and tolerance concerns
- Evaluated test results using descriptive statistics and root cause reasoning for next experiments
- Presented findings to faculty reviewers while maintaining revision controlled files for knowledge transfer

**Manufacturing Research Assistant, University Research Lab**  
The Ohio State University

September 2025 - May 2026  
Columbus, OH

Supported supervised manufacturing research involving polymer joining and small part production. Executed approved procedures, organized measurement data, prepared technical summaries, and maintained traceable records that helped later researchers reproduce experimental conditions.

- Supported polymer joining research under documented procedures and supervised laboratory direction
- Consolidated measurements from multiple test runs into standardized datasets for analysis
- Created a spreadsheet dashboard comparing process conditions across experimental batches
- Executed approved protocols with calibrated equipment and recorded deviations for review
- Prepared technical figures and method summaries for a semester research presentation
- Maintained experiment records and **material traceability** notes for reproducible testing

**Supply Chain Engineering Project Lead, Course Project**

January 2025 - May 2025

The Ohio State University

Columbus, OH

Led a supervised five student analysis of a simulated medical device component supply chain. Coordinated project work, compared supplier capability and risk, mapped manufacturing requirements, and communicated recommendations through a structured engineering report.

- Led five students evaluating supplier capability, **lead time**, and **manufacturing risk**
- Built a supplier comparison model using quality, capacity, delivery, and cost inputs
- Defined a process change proposal connecting **inspection flow** with **manufacturing requirements**
- Used **statistical analysis** to compare **process data** and identify investigation conditions
- Documented assumptions, calculations, process maps, and recommendations in an engineering report
- Delivered final findings and coordinated student assignments across project milestones

**PROJECTS**

**Assembly Process Development Study** 📅 2026

Developed and tested a simulated medical device assembly concept, connecting fixture design, process measurements, acceptance criteria, and controlled technical records. Work reflects a commitment to safe, repeatable manufacturing that supports patients and production teams.

**Supplier Risk Evaluation Model** 📅 2025

Created a case based supplier evaluation model that compared quality, capacity, delivery, cost, lead time, and manufacturing risk. The project linked sound decisions with dependable device availability and practical supply chain stewardship.

**LEADERSHIP & AWARDS**

- Dean's List, 2025 to 2026, recognized sustained academic performance in mechanical engineering studies.
- College of Engineering Academic Scholarship, 2025, awarded for academic achievement and continued engineering development.
- Undergraduate Research Poster Recognition, 2026, honored clear communication of supervised manufacturing research findings.
- Engineering Student Council Project Representative, 2026, coordinated student input and supported campus engineering initiatives.

**CERTIFICATIONS**

- Microsoft Learn: Analyze Data with Excel 📅 2026
- Coursera: Introduction to Medical Device Development 📅 2026
- University Laboratory Safety Training 📅 2025

**PROFESSIONAL AFFILIATIONS**

- Biomedical Engineering Society Student Chapter member, 2025 to 2026, connecting classroom learning with medical device interests.
- Campus Community Service Corps Volunteer Coordinator, 2025 to 2026, organized student participation in community service.
- Engineering Student Council Project Representative, 2026, contributed dependable coordination across student engineering activities.

**LANGUAGES**

- English (Native)
- Spanish (Beginner)

**ADDITIONAL INFORMATION**

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

**REFERENCES**

AVAILABLE ON REQUEST