

Yuan Gilbert

Mechanical Engineering Intern, Mechanical Design

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SUMMARY

Mechanical Engineering student at University of Wisconsin Madison, building practical experience through supervised design projects and laboratory work. Creates SolidWorks part and assembly models, develops **mechanical layouts**, interprets blueprints, and evaluates components such as shafts, bearings, fasteners, and linkages. Applies manufacturing process concepts when refining designs for fabrication, assembly, and equipment improvement. Measures prototypes, reviews **failure modes**, documents design changes, and presents technical findings to faculty and student teams. Organized communication supports productive collaboration across design and manufacturing focused activities. Current work has strengthened analytical problem solving, **technical documentation**, and practical engineering judgment. Prepared to contribute to project based **mechanical design** work while continuing development through mentorship, cross disciplinary collaboration, and hands on manufacturing exposure.

EDUCATION

Bachelor of Science in Mechanical Engineering

University of Wisconsin Madison 🎓 GPA: 4.0 📅 2027 📍 Madison, WI

Coursework: Mechanical design, manufacturing processes, engineering mechanics, computer aided design

TECHNICAL SKILLS

- **CAD Software:** SolidWorks, part modeling, assembly modeling
- **Mechanical Design:** Mechanical layouts, component design, equipment redesign
- **Blueprint Documentation:** Blueprint reading, engineering drawings, technical documentation
- **Machine Components:** Gearing, shafting, bearings
- **Linkage Systems:** Linkages, frames, cylinders
- **Manufacturing Hardware:** Tools, jigs, fasteners
- **Design Analysis:** Failure modes, component measurement, design review
- **Prototype Development:** Prototype evaluation, testing observations, physical comparison
- **Manufacturing Processes:** Fabrication, assembly, manufacturing capabilities
- **Engineering Workflows:** Research and development, cross functional collaboration, project documentation
- **Equipment Improvement:** Production equipment, facilities engineering, continuous improvement
- **Technical Communication:** Design presentations, technical summaries, progress communication

SKILLS

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|---------------------|-----------------------------|-------------------------|-----------------------------|
| • SolidWorks | • Assembly Design | • Mechanical Layouts | • Design Reviews |
| • CAD | • Manufacturing Processes | • Component Evaluation | • Equipment Improvement |
| • Mechanical Design | • Technical Documentation | • Failure Analysis | • Cross Functional Teamwork |
| • Blueprint Reading | • Engineering Collaboration | • Prototype Development | |

EXPERIENCE

Mechanical Engineering Design Intern Project

University Project 📅 January 2026 - Present 📍 Madison, WI

Supports a supervised **mechanical design** project focused on SolidWorks modeling, component evaluation, manufacturing considerations, technical documentation, and faculty review. Work connects design decisions with practical fabrication and assembly needs.

- Created **SolidWorks** part and assembly models for component layouts and manufacturing review.
- Interpreted **engineering drawings** and verified dimensions against documented design intent.
- Evaluated **fasteners**, shafts, **bearings**, and linkage concepts during structured design reviews.
- Documented design changes, testing observations, and improvement recommendations for project presentations.
- Applied manufacturing process concepts when refining fabrication and assembly requirements.
- Presented project findings to faculty reviewers through organized **technical documentation**.

Mechanical Engineering Design Assistant

Student Innovation Lab 📅 September 2025 - December 2025 📍 Madison, WI

Supported supervised laboratory design activities involving digital assemblies, prototype measurement, testing observations, technical summaries, and collaborative task planning. Contributions helped student teams compare physical results with engineering drawings and refine equipment concepts.

- Supported supervised **mechanical design** activities involving CAD modeling and prototype evaluation.
- Built **SolidWorks** assemblies that clarified equipment concepts and component relationships.
- Measured prototype components and compared physical results with **engineering drawings**.
- Recorded testing observations and prepared **technical summaries** for laboratory discussions.
- Coordinated design tasks with student teams and communicated progress during reviews.
- Applied engineering fundamentals when recommending practical design refinements.

PROJECTS

Manufacturing Equipment Redesign Study 📅 2026

Explored equipment redesign decisions through mechanical layouts, component measurements, SolidWorks assemblies, and manufacturing process review. The study connected failure mode observations with practical updates for fabrication, assembly, and operational use.

Mechanical Component Evaluation Study 📅 2025

Reviewed shafts, bearings, fasteners, linkages, and frames within a supervised design study. Compared component relationships, documented observations, and presented recommendations that supported clearer mechanical design decisions.

LEADERSHIP & AWARDS

- Dean's List Recognition, 2025
- Mechanical Engineering Design Project Recognition, 2026
- Faculty recognized clear technical documentation during project presentations.

CERTIFICATIONS

- SolidWorks CAD Fundamentals Certificate 📅 2026
- Engineering Design Documentation Certificate 📅 2026

PROFESSIONAL AFFILIATIONS

- Mechanical Engineering Student Design Group participant
- Campus Engineering Peer Mentoring Program participant

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST