

Prototype Development

Design Reviews

Equipment Improvement

Cross Functional Teamwork

LANGUAGES

English Native

Spanish Intermediate

MY CAREER



Mechanical Engineering Design Intern Project at University Project (8 Months)

Mechanical Engineering Design Assistant at Student Innovation Lab (3 Months)

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

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST