

# TRENNER JONES

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## EDUCATION

**Purdue University**, West Lafayette, IN Aug 2020 – May 2024  
Bachelor of Science in Mechanical Engineering, Minor in Design & Innovation GPA: 3.33  
**Universidad Carlos III de Madrid**, Madrid, Spain Jan 2023 – Jun 2023  
Semester Exchange

## WORK EXPERIENCE

**AbbVie**, North Chicago, IL Jun 2023 – Aug 2023

### Operations Intern – Global Facilities Engineering

- Analyzed laboratory HVAC system for a building with 32 lab modules, providing valuable insight into proper air supply and duct sizing for future renovations
- Developed detailed engineering package to guide removal of three air handling units and accompanying utilities, updating six AutoCAD drawings for precise documentation
- Designed and documented construction plans for an HVAC controller testing area to evaluate control schemes prior to implementation in future facilities

**Pfizer**, Sanford, NC May 2022 – Jul 2022

### Biotech Intern – Equipment Validation

- Revised 20+ P&ID drawings for fermentors used in vaccine manufacturing, enhancing readability and safety
- Collaborated with 29 interns to propose a site-level ESG program, adhering to corporate sustainability policy
- Compiled re-validation information for site-level computer systems, streamlining efficiency
- Gained practical experience in pharmaceutical equipment validation, assisting in autoclave/fermentor requalification

**Printpack**, Bloomington, IN Jun 2021 – Jul 2021

### Intern – Engineering

- Improved existing ink pumping system design to minimize cost and downtime
- Implemented a compressed air leak detection program, improving energy efficiency and reducing costs
- Enhanced pedestrian safety by redesigning walkways based on analysis of pedestrian and forklift traffic flow

## INVOLVEMENT

**Purdue Mechanical Engineering Ambassadors**, West Lafayette, IN Nov 2021 – May 2024

### Committee Head – Student Activities (Aug 2023 – Dec 2023)

- Led a team of 7 ambassadors in organizing engaging events for the School of Mechanical Engineering
- Managed logistics of all student events and activities, collaborating effectively with school administrators and faculty to ensure successful execution

### Ambassador

- Led informative tours for prospective mechanical engineering students, tailoring presentations to address individual interests and questions about program details, coursework options, and career opportunities

**ME 199 – How Stuff Works**, West Lafayette, IN Aug 2022 – May 2024

### Course Instructor

- Introduced 50+ first-year engineering students to fundamental mechanical engineering principles and applications by explaining mechanics of 11 different everyday objects through hands-on instruction
- Mentored first-year students, providing guidance on coursework selection and navigating the engineering program

**RAAD Lab – 1109 Bravo Project**, West Lafayette, IN Aug 2023 – Dec 2023

### Undergraduate Researcher

- Investigated effects of different feedback strategies on motor learning in exercise through human-subject testing
- Measured force output of wearable device, contributing to a better understanding of human-machine interaction

## SKILLS

**Software:** AutoCAD, Autodesk Inventor, PTC Creo, SolidWorks, Siemens NX, Microsoft Office

**Programming:** C, C++, JavaScript, LabVIEW, LaTeX, MATLAB, Python