

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: 3.3
Universidad Carlos III de Madrid, Madrid, Spain Jan 2023 – Jun 2023
Semester Exchange

PROFESSIONAL EXPERIENCE

AbbVie, North Chicago, IL Jun 2023 – Aug 2023

Operations Intern – Global Facilities Engineering

- Conducted comprehensive analysis of the HVAC system in a laboratory building with 32 lab modules, providing valuable insights into air supply and duct sizing requirements for future renovations
- Developed a detailed engineering package to guide the removal of three air handling units and accompanying utilities, updating six AutoCAD drawings to reflect changes accurately
- Designed and created construction documents for an HVAC controller testing area to evaluate control schemes prior to implementation in facilities worldwide
- Field verified and updated HVAC and piping drawings, ensuring proper documentation of building conditions

Pfizer, Sanford, NC May 2022 – Jul 2022

Biotech Intern – Equipment Validation

- Revised P&ID drawings of fermentors used in vaccine manufacturing, enhancing safety and readability
- Assisted in re-qualification of autoclaves and fermentors to confirm equipment validation status
- Compiled re-validation information for site-level computer systems into one location to improve efficiency
- Collaborated with 29 interns to propose a site-level ESG program, improving corporate sustainability

Printpack, Bloomington, IN Jun 2021 – Jul 2021

Intern – Engineering

- Devised an improvement plan for the existing ink pumping system, reducing exposure to hazardous chemicals and minimizing downtime
- Implemented a compressed air leak detection program, improving energy efficiency and reducing costs
- Redesigned safer pedestrian pathways by analyzing pedestrian and forklift traffic, minimizing safety risks

INVOLVEMENT

Purdue Mechanical Engineering Ambassadors, West Lafayette, IN Nov 2021 – PRESENT

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

- Led a team of 7 ME ambassadors in organizing engaging events for the School of Mechanical Engineering
- Coordinated with school administrators to plan logistics for all student events and activities

Ambassador

- Conduct informative tours for prospective ME students, addressing concerns and questions related to coursework, clubs, and the school in general

ME 199 – How Stuff Works, West Lafayette, IN Aug 2022 – PRESENT

Course Instructor

- Introduce 29 first-year engineering students to fundamental mechanical engineering principles and applications by explaining the mechanics of 11 different everyday objects through hands-on instruction
- Act as a mentor for first-year students to aid in them making informed decisions about their coursework

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

Undergraduate Researcher

- Conducted tests studying the effects of different feedback strategies on motor learning and exercise training

SKILLS

Software: AutoCAD, Autodesk Inventor, Fusion 360, SolidWorks, Siemens NX, Microsoft Office

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