

Trenner Jones

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Education

Purdue University, West Lafayette, IN

Aug 2020 – May 2024

B.S. in Mechanical Engineering, Minor in Design & Innovation

GPA: 3.33

Skills

CAD: SolidWorks, PTC Creo, Fusion 360, AutoCAD, Autodesk Inventor, Siemens NX

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

Other: Data Analysis (Python, Excel), Technical Writing, 3D Printing, Arduino, Microsoft Office

Work Experience

AbbVie, North Chicago, IL

June 2023 – Aug 2023

Operations Intern – Global Facilities Engineering

- Calculated air volume ranges, velocity, and pressure for laboratory HVAC system based on exhaust requirements and duct sizing, demonstrating need for a 35% increase in air supply
- Developed construction documents guiding removal of 3 non-operational air handling units and utilities, freeing 500+ sq. ft. for system upgrades
- Verified and updated HVAC systems drawings to reflect field conditions, converting 12 outdated manual drawings into revised digital formats to be utilized in remodeling and upgrading of laboratories

Pfizer, Sanford, NC

May 2022 – July 2022

Biotech Intern – Equipment Validation

- Revised and field-verified drawings of fermentors used in vaccine manufacturing, generating 20+ P&ID drawings, reducing equipment requalification time by 10%
- Acted as liaison between Global Chief DEI Officer and 29 interns in developing a site-level ESG program to enhance sustainability at a local level
- Compiled and analyzed re-validation data for site-level computer systems in Microsoft Excel, creating a centralized repository to improve efficiency

Printpack, Bloomington, IN

June 2021 – July 2021

Intern – Engineering

- Calculated compressed air leak rates and developed detection program, reducing energy loss by 25%
- Optimized pedestrian walkways by conducting field analysis of pedestrian and forklift traffic flow

Involvement

Purdue Mechanical Engineering Ambassadors, West Lafayette, IN

Nov 2021 – May 2024

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

- Led a team of 7 ambassadors in organizing multiple student events, coordinating with administrators, faculty, and students, engaging a total of 200+ participants across all events

Ambassador

- Facilitated tours for prospective mechanical engineering students, tailoring presentations to address specific interests and questions about program, coursework, and career opportunities

ME 199 – How Stuff Works, West Lafayette, IN

Aug 2022 – May 2024

Course Instructor

- Taught 50+ first-year students engineering principles, breaking down complex concepts with hands-on instruction using everyday objects, demonstrating applications, and deepening understanding

RAAD Lab – 1109 Bravo Project, West Lafayette, IN

Aug 2023 – Dec 2023

Undergraduate Researcher

- Measured force output of a wearable device as a function of displacement, enhancing understanding of human-machine interaction with device
- Oversaw human-subject testing to study effects of various feedback strategies on motor learning