

# 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

## Skills

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

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

**Prototyping:** 3D Printing, Arduino, Laser Cutting, Lathing, Milling, Soldering

## 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- Verified and updated HVAC systems drawings to reflect field conditions, converting 12 outdated manual drawings into revised digital formats to be utilized in remodeling and upgrading of laboratories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