

Kyle Frank

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EDUCATION

Purdue University

Bachelor of Science in Mechanical Engineering
Minor in Sustainable Engineering

West Lafayette, IN

Expected Graduation: May 2026
Dean's List Student – GPA: 3.87

RELEVANT EXPERIENCE

ASME Energy: Solar Design Lead

Purdue University, Spring 2025

- Development of a solar-plus-storage project to compete in the **Solar District Cup**
- Running meetings, planning out the schedule for the design process, effectively managing a sub-team of club members

ME 263: A Project to Improve Office Chair Wheels

Purdue University, 2024

- Applied the engineering design process to develop a medium-fidelity, **3D printed** prototype
- Learned and utilized **Design for Assembly** and **Statistical Tolerancing** to improve the quality of the design
- Wrote technical papers reporting on progress and effectively managed a 4-person team to produce quality results

ME 297: Air Engine Project

Purdue University, 2023

- Developed custom parts for an air engine assembly using **Siemens NX**
- Created a working set of engineering assembly and part drawings with proper **GD&T**

Engineering Capstone: Laptop Desk

Farmington High School, 2022

- Brainstormed many relevant engineering problems, worked with 2 teammates throughout the project
- Iterated a mechanism for a sliding screen underneath the desktop with **Onshape** CAD models and **3D printing**
- Utilized **woodworking** to design and construct a **high-fidelity prototype** to maximize desktop space

WORK EXPERIENCE

Student Service: ME Project Machine Shop

Purdue University, August 2024 - Present

- Providing guidance and **instructing** students about proper use of machinery, including Mills, Lathes, and Bandsaws
- Reading **CAD drawings** and understanding proper **manufacturing** processes to produce quality parts at high efficiency

ME Computer Lab Attendant

Purdue University, August 2024 – December 2024

- Insuring quality operation of the computer lab, includes securing the area, maintaining printers, and cleaning

Prime Shopper

Whole Foods Market, June 2024 – August 2024

- **Efficiently** prepared grocery orders at 92 units per hour while assisting customers and fellow team members
- Dropped off groceries for pickup in store and in customer vehicles

ACTIVITIES

Pi Tau Sigma (Mechanical Engineering Honor Society)

Purdue University, 2024 - Present

- Actively participating and providing services for the school of mechanical engineering

American Society of Mechanical Engineers

Purdue University, 2023 - Present

- Member of structures sub-team, working to develop a rainwater filtration system for Purdue's DC Nanogrid house
- Modeling with **Fusion 360** to create the CAD for the structures necessary for ensuring stability of the system
- Participated in two semester long projects on teams of 8 people, for drone and RC car building competitions

Purdue Philharmonic Orchestra

Purdue University, 2022 - Present

- Member of the second violinist section in Purdue's top symphonic orchestra, continuing a lifelong passion for music

SKILLS

Programming Languages: C Programming, MATLAB

Manufacturing: CAD (Autodesk Inventor, Onshape, Siemens NX, Fusion 360), 3D Printing, Mill, Lathe, Bandsaw, Woodworking

Design: Geometric Dimensioning & Tolerancing, Design for Assembly, Statistical Tolerancing, Finite Element Analysis

Organizational: Microsoft Office Suite, Google Drive Suite, Technical Writing

Personal: Time Management, Attention to Detail, Efficiency, Problem Solving, Instructing