

EDUCATION

Grove City College – Grove City, PA

Bachelor of Science in Mechanical Engineering (ABET) – Expected Graduation: May 2026

Minors in Robotics and Computer Science

GPA: 3.87/4.00

Relevant Coursework: *Engineering Drafting, 3D Modeling, Introduction to Engineering*

York Suburban High School – York, PA

GPA: 4.26/4.00 (3.87 unweighted) – Second in Graduating Class

TECHNICAL SKILLS

- 3D CAD: Creo Parametric 9, SOLIDWORKS, Autodesk Fusion 360
- Programing: Python, Java, C++, MathWorks MATLAB, Git, Visual Studio Code
- Manufacturing: Electronics Soldering, 3D Printing, CNC Machining

RELEVANT EXPERIENCE

Creo vs. Solidworks Pilot Course, Grove City College, Grove City PA

Spring Semester 2023

- Learn Solidworks independently and document progress.
- Compare Solidworks to PTC Creo Parametric.
- Assist in transitioning the Engineering department from Creo to Solidworks.

Human Powered Vehicles Club, Grove City College, Grove City PA

August 2022 – Present

- Collaborate on design and manufacture of the cargo bike.
- Design and source components for the drivetrain of this bike.

Robotics Research Continued Development ([Portfolio](#))

December 2022 – Present

- Wrote custom windows app to control robot over Bluetooth.
- Increased data logging capabilities of the robot & controller.
- Tuning PID controller and improving balancing behavior of the robot.

Robotics Independent Research, York Suburban High School, York PA ([Portfolio](#))

August 2021 – May 2022

- Designed mechanical and electrical systems for a custom balancing robot.
- Sourced components and assembled mechanical and electrical components.
- Programmed Balancing algorithm for robot using C++.
- Developed a controller for the robot using Bluetooth and an Android App.

Set Designer and Build Lead, York Suburban Trojan Theatre, York PA ([Portfolio](#))

August 2021 – May 2022

- Designed original sets for the plays *Rumors* and *Our Town*
- Budgeted and sourced materials for set construction.
- Trained and lead a team of 6 students in the construction of both sets.

2nd Place CAD Engineering, State Technology Student Association Competition, PA ([Portfolio](#))

April 2022

- Modeled components from provided drawings in timed competition.
- Qualified for national competition from

WORK EXPERIENCE

Student Technician, Grove City Media Services, Grove City PA

August 2023 – Present

- Operate lighting, sound, and video systems for live productions.
- Coordinate with technical team and presenters to maintain high production quality.
- Assist in updating and streamlining Standard Procedures to reduce labor and confusion.

Landscaper, Krape's Lawn Care, York PA

June 2022 – August 2022

- Collaborate with small team to efficiently carry out landscaping work.