

## 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.

### 2<sup>nd</sup> 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.