

## EDUCATION

Grove City College – Grove City, PA

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

Minors in Robotics and Computer Science

GPA: 3.87/4.00

*Relevant Coursework: Engineering Drafting, 3D Modeling, Calculus I & II, Chemistry I, Physics I, Introduction to Engineering*

York Suburban High School – York, PA

Second in graduating class of 2022

GPA: 4.26/4.00 (3.87 unweighted)

## TECHNICAL SKILLS

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

## RELEVANT EXPERIENCE

### Robotics Independent Study, York Suburban High School, York PA

*August 2021 – May 2022*

- Designed original sets for the plays *Rumors* and *Our Town*
- 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

### Robotics Project Continued, Personal Project

*December 2022 – Present*

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

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

*January 2023 – May 2023*

- Learn Solidworks independently and document the learning process.
- Compare Solidworks to PTC Creo Parametric
- Assist in transitioning the primary CAD course from teaching Creo to Solidworks

### Set Designer and Build Lead, York Suburban Trojan Theatre, York PA

*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

*April 2022*

- Modeled components from provided drawings in timed competition.
- Placed 2<sup>nd</sup> in state competition of ~40 participants, qualifying for National Competition.

## 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.