

# Adam Richwall

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Determined Mechanical Engineering student with three co-ops of engineering experience. Well-versed in problem solving and multidisciplinary team settings. Motivated by fast paced and adapting work environments.



## Education

York College of Pennsylvania, York, PA  
Bachelor of Science in Mechanical Engineering, Minor in Mathematics

Expected graduation: 2023  
GPA: 3.89

## Engineering Skills and Coursework

Software and machinery: SolidWorks, Fusion 360, Autodesk Inventor, AutoCAD, MATLAB, 3D Printer, Lathe  
Coursework: Heat Transfer, Formula SAE Capstone, Materials Science, Fluid Mechanics, Thermodynamics

## Engineering Projects

### Formula SAE Capstone Design | York College of Pennsylvania | Summer 2022 and Spring 2023

- Led the aerodynamics/body sub-team to design an aero package for the formula race car
- Created a rendered front wing on SolidWorks and researched carbon fiber fabrication techniques
- Simulated track conditions using Ansys flow simulation to prove aerodynamic advantages of parts
- Prepared a technical report outlining major design contributions to benefit competition results

### Machine Design | York College of Pennsylvania | Fall 2021

- Created a device to efficiently crush black walnuts safely for a consumer's kitchen needs
- Worked on a three-person team and applied concepts learned in the class for structural calculations
- Presented and demonstrated the design prototype to a panel of judges who ranked each group

## Work Experience

### Controls Engineering Intern | Multi-Dimensional Integration | Shrewsbury, PA | Spring 2022 and Fall 2022

- Commissioned conveyor surveillance applications for four AmerisourceBergen distribution centers
- Developed a multi-site SCADA/MES application using Inductive Automation's Ignition platform
- Applied ladder logic, python, java, and HTML scripting to simplify complicated tasks
- Demonstrated professionalism communicating with customers, delegating work, and planning travel

### Engineering Intern | Radwell International Inc. | Willingboro, NJ | Summer 2021

- 3D printed and laser cut parts designed on Fusion 360 to replace drive covers or to enhance projects
- Programmed controllers in PLC ladder and wired compatible automation devices
- Formulated SOPs for repair technicians and engineers to follow
- Constructed test assets to streamline testing by simulating a client's system

## Leadership and Volunteer

### Engineering Society of York Mechanical Engineering Award | May 2021

- Recognition for being the top 2<sup>nd</sup> year student in the ME program at York College of Pennsylvania

### Kappa Delta Rho Fraternity, Philanthropy Chair | York College of Pennsylvania | Fall 2020 – Present

- Organized fundraising events to raise money for The Andrew McDonough B+ Foundation

### Club Ultimate Frisbee | York College of Pennsylvania | Fall 2019 – Present

- Role model to newcomers by teaching useful throws and important game tactics

### STEM Scholar | York College of Pennsylvania | Fall 2019 – Present

- Innovative program intended to tackle difficult problems by means of mentorships and research