

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

- Led the aerodynamics and body 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 formal tech 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
- Presented the design to a panel of judges who ranked each group in the class
- Worked on a three-person team and applied concepts learned in the class for structural calculations

Work Experience

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

- Tested and 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, assigning tasks, 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 2nd 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