

Owen T. Chaffin

Bethel Park, PA

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References available upon request.

Objective: Seeking a co-op in the fields of Engineering Design, Electrical, or Mechanical Engineering.

Education: **Bachelor of Science, Engineering Design – Minor in Robotics** **May 2027**
Rose-Hulman Institute of Technology, Terre Haute, IN **GPA: 3.34**
Noblitt Scholars Program, Dean's List 2x

Related Courses:

MATLAB for Instrumentation, AC Circuit, System Accounting and Modeling

Certificate, General Education, Highest Honors (60 credit hours) **May 2023**
Community College of Allegheny County (CCAC), Pittsburgh, PA **GPA: 3.93**
2023 All-PA Academic Team Scholarship Award, Dean's List (8 semesters)

Skills: **Software:** SolidWorks, OnShape, Fusion 360, Microsoft Office/Excel, MATLAB, Python, Luna
Technical: 3D Printing (Resin, FDM, SLS), MIG Welder, CNC Routers, Circuit Design, Millwork & Joinery, Woodworking, Sewing, Soldering, Electronics system repair, Metal fabrication, Industrial laser cutting and engraving, Plastics fabrication, Vacuum forming, Vertical mill, Lathe
Systems: Windows

Experience: **EKTO VR - Pittsburgh, PA - Engineering Design Intern** **May-August 2024**

- Designed and prototyped various mechanical and electrical systems including gearboxes, transmissions, batteries (Li-ion), and power distribution methods.
- Designed, prototyped, and fabricated numerous wearable robotics platforms including boots, belts, backpacks, and vests.
- Planned and conducted user experience testing for factors like ergonomics, storage, and useability.
- Facilitated prototype testing for wearable robotics platforms.

Protohaven Maker Space - Pittsburgh, PA - Shop Technician **February-September 2023**

- Maintained and repaired industrial equipment, and consulted for member projects.

Projects: **More available in my portfolio at owenchaffin.com**

Automated AI Controlled Gel Turret, 2024

- A turret that identifies a target based on a set of criteria and propels soft gel pellets in its direction.

Mega Marble Maze, 2024

- A magnetic, modular marble track toy that allows users to customize their maze with unique features.

Toggle Tower, 2023

- A large wooden puzzle box built for a client who has children with disabilities.

Liquid Level Cupholder

- A self-leveling cupholder that attaches to walkers, wheelchairs, and other mobility aids..

Leadership and Activities:

MakerLab, CNC and 3D Printing Officer/Educator **2023-Current**

- CNC Operations Manager, 3D Printing Manager, Technical Educator

Alpha Phi Omega Service Fraternity **2023-Current**

- Communications Director, Active Member

Combat Robotics Team, Rose-Hulman Institute of Technology **2023-Current**

- Subteam Captain

Scouts BSA, Loyal Highlands Council, Pittsburgh PA **March 2015- Current**

- 2022 Eagle Scout Rank, 2023 National Eagle Scout Association Palmer Scholarship

Student Government Association, CCAC **December 2020-May 2023**

- Vice President, Treasurer, Senator

Phi Theta Kappa, CCAC South Chapter **October 2020-May 2023**

- Co-President, Alpha Iota Eta Chapter, South Campus