

# Owen T. Chaffin

Bethel Park, PA

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**References available upon request.**

**Objective:** Obtaining a Manufacturing/Mechanical/Design Engineering full-time position after May of 2027.

**Education:** **Bachelor of Science, Mechanical/Electrical Engineering Design – Minor in Manufacturing** **May 2027**  
*Rose-Hulman Institute of Technology, Terre Haute, IN* **GPA: 3.20**  
Noblitt Scholars Program, Dean’s List 4 Terms, Senior Class Standing

*Related Courses:*

Lean Manufacturing, AC & DC Circuits, FEA, Human Centered Design, UX Design, Dynamics, DFM, DOE, DFA

**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)

**Experience:** **FGF Manufacturing – Indianapolis, IN – Mechanical Engineering Co-op** **May-November 2025**

- Implemented SAP for to standardize operational workflows company-wide.
- Led the 5S categorization, organization, and designed storage for overhaul of the factory maintenance department.
- Planned and conducted reorganization of factory parts storage warehouse to bring over 6500 unique parts to Lean Manufacturing standards.

**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 Engineering Technician** **February-September 2023**

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

**Skills:** **Software:** SolidWorks, AutoCad, SAP, Infor EAM, Fusion 360, Creo, MATLAB, Python, Java, Revit  
**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, Vacuum forming, Vertical mill, Lathe, Injection Molding, Casting  
**Systems:** Windows, Linux

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

**MediMate Automated Medicine Dispenser, 2025**

- An automated medicine dispenser designed to fill a need for a low-cost, user-friendly, and reliable medication system for seniors and people with medicine routines.

**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 side table with an integrated wooden puzzle box built for a client who has children with disabilities.

**Liquid Level Cupholder, 2022**

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

**Leadership and Activities:**

**Engineers Society of Western Pennsylvania – Student Chair** **2024-Current**

**MakerLab, Vice President - 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