

## WORK EXPERIENCE

### HANDSFREE HEALTH | Intern

Wayne, PA | May 2022 - Aug. 2022, July 2023 - Aug. 2023

Led testing and maintenance of integral software and applications, supporting migration and stability for a significant user base.

- Supported expansion of automated test suite for mobile, device, API and internal tool suites, as well as independently conducting manual exploratory testing.
- Increased code coverage through unit test development in C# and .NET, in content microservice and server API code.
- Upgraded smart healthcare products to the latest firmware and device software to support tenant migration and enhanced stability for upwards of 5,000 users.
- Adapted quickly to the software engineering team and became an active contributor through catching bugs and suggesting progress improvements.

### JOHNSON & JOHNSON | Product Development Co-Op

West Chester, PA | Jan. 2023 - July 2023

Interfaced with Marketing Leaders, Supply Chain, and Senior Engineers throughout the medical device product launch process.

- Contributed to the development of orthopedic surgical instruments, demonstrating innovation and problem-solving skills. Gathered feedback from surgeons, made improvements, and received positive feedback.
- Maintained and updated the company's internal website used worldwide by dozens of employees daily, ensuring all information was accurate and enhancing user experience.
- Played a key role in onboarding 10+ new starts, providing necessary support, setting up meetings, and helping them integrate into the team and company culture.
- Created and presented a comprehensive reference sheet consolidating properties of numerous 3D printed and machined materials, providing valuable information for material selection in prototyping to hundreds of global employees.
- Conducted strength and safety testing on 15+ products, taking charge of designing test fixtures and writing test reports.

### CYBER-PHYSICAL MANUFACTURING LAB | Course Assistant

Boston, MA | Mar. 2022 - Present

Trained students with using a manufacturing execution system, additive, and subtractive manufacturing for use in a smart factory.

- Manage and develop user documentation for simulated manufacturing line machines and programs under the instruction of Mohsen Moghaddam.
- Demonstrate and teach state of the art Industry 4.0 equipment to 40+ Northeastern students in lab courses, with a focus on product design and prototyping, programming and control of industrial machinery, and integrated factory automation.

## PROJECT EXPERIENCE

### WEBSITE CREATION | Independent Venture

Chester Springs, PA | July 2023 - Present

- Independently learned and applied React to develop and deploy a responsive portfolio website, showcasing projects, skills, and resume information.
- Demonstrated self-motivation and resourcefulness by conducting thorough testing and debugging, resolving issues independently to ensure a smooth and error-free user experience.

### NORTHEASTERN ELECTRIC RACING | Drivetrain Team Member

Boston, MA | Sept. 2022 - Present

- Analyze sprocket data in MATLAB for maximum efficiency and optimization, while also performing in-depth research of optimal material characteristics.
- Model drive and driven sprockets in SolidWorks for maximum strength, least weight, and best speed.

### TRIVIA CANDY DISPENSER | Design Project

Boston, MA | Jan. 2021 - May 2021

- Designed a candy dispenser that dispenses candy once the user answers 80% of questions correctly.
- Created 3D printed parts and a prototype in SolidWorks and laser cut AutoCAD designs.

## EDUCATION

### NORTHEASTERN UNIVERSITY | GPA: 3.66

Boston, MA | Sept. 2021 - May 2025

Dean's List: College of Engineering, B.S. in Mechanical Engineering, Minor in Computer Science

## SKILLS

**DESIGN:** Creo, SolidWorks, AutoCAD, MATLAB, ANSYS (Static Structural)

**SOFTWARE:** C++, C#, SQL, JavaScript, Azure, Visual Studio, Microsoft Office (Word, PowerPoint, Excel), Power BI, Minitab

**ADDITIONAL:** 3D Printing (FDM, LCD Resin), Agile, Scrum