

## EDUCATION

### Carnegie Mellon University

B.S. in Electrical and Computer Engineering & Music Technology

Relevant Coursework:

Digital Signal Processing	Electrical Power Systems	Electronic Devices & Analog Circuits
Engineering and Public Policy	Electroacoustics (Teaching Assistant)	Introduction to Computer Systems

Pittsburgh, PA

Class of 2025

## WORK EXPERIENCE

### Hitachi Ltd., Flexware Innovation

Engineering Intern (Trailblazer Fellowship)

Fishers, IN

May 2023 - December 2023

- Facilitated automation of software build with Azure DevOps for global pharmaceutical company.
- Collaborated with research and development team to develop custom robotic solution for regional medical lab on an accelerated timeline from scratch.
- Upgraded custom webpage using RazorPages and created dashboard to streamline client's compliance requests.

### Local Motors Inc

Engineering Intern

Knoxville, TN

June 2021 - July 2021

- Created comprehensive documentation and wrote standard operating procedures (SOPs) to enable process efficiency for manufacturing of last-mile 3D-printed, autonomous, electric shuttles.
- Collaborated with production, engineering, operations, and service teams to create standard operating procedures. Recognized by CEO for initiating improvement projects resulting in \$120,000 cost savings.

## EXTRACURRICULAR EXPERIENCE

### CMU Transportation Club

Officer

Pittsburgh, PA

March 2023 - Present

- Connect CMU students with local and regional companies in the transportation industry.
- Collaborate with Safety21 initiative to facilitate the club's transition to a university-wide organization and build a presence at conferences and seminars.

### ECE Outreach

President

Pittsburgh, PA

August 2021 - Present

- Design and execute engineering curricula for lab-based STEM activities engaging over 100 local grade-school students per year.
- Lead recruiting efforts in conjunction with CMU's ECE department to bring college-level educational experiences to schools in the greater Pittsburgh area.

### FIRST Robotics

Programming and Electrical Lead

Columbus, IN and Carmel, IN

August 2016 - March 2020

- Leader of programming and electrical teams (4926 and 868); developed new curriculum to train new members that is still in use.
- Implemented innovative motion profiling algorithms, efficient code structure, and stable wiring framework leading to a state championship victory.

## PROJECTS

### Pathways to Care

Pfizer Software Hackathon

September 2024

- Led team to develop proof-of-concept website with the goal of helping underserved students pursue healthcare career pathways as part of the inaugural 2024 Pfizer Software Hackathon.

### A Fabric Tape Loop

CMU Textiles Lab Synthesizer Jam

July 2022

- Generated sound with fabric of various materials and patterns working with interdisciplinary team. Used concepts from textile materials science and analog circuit design to allow user interaction, with potential applications in wearable assistive devices.

### attune.

Fundamentals of Programming & CS Term Project

December 2020

- Music player app which provides listening data for both streamed and local music, filling a gap present in consumer audio. Written in Python, using XML, PyGame, Tkinter graphics, and PyAudio libraries, along with API interactions.

### Robotics Camp

Coburn Place Safe Haven of Indianapolis

June 2019 - June 2020

- Organized and implemented two 6-week robotics camps for 20 elementary-school students at the transitional housing facility, developing foundational concepts in STEAM and instilling an interest in engineering.