

## Education

### UNIVERSITY OF PITTSBURGH

BS IN MECHANICAL ENGINEERING

May 2023 Pittsburgh, PA

- Minor in Material Science
- Certificate in simulation aided design

## Coursework

### UNDERGRADUATE

Automatic Controls, Dynamic Systems, Measurements 1 and 2, Materials and Manufacturing, Mechatronics, Fantastic Robots and How to Fold Them (CMU)

## Skills

### CAD:

- Autodesk Fusion 360
- Autodesk Inventor
- Solidworks

### PROGRAMING:

- Matlab
- Python
- Arduino
- C++
- $\text{\LaTeX}$

### OTHER:

- 3D printing
- Material Selection
- Microsoft Office
- Ansys Workbench
- Automatic Controls
- Rigid Body Dynamics

## Current Interests

- AI/Machine Learning
- 3D Printing
- Arduino-Based Projects
- Robotics
- Programming

## Recent Projects

- Highly controlled back-lit desk using addressable LEDs
- Remote-controlled curtains
- Rotating mount for window plants

## Competitions

**SOLAR-POWERED ROVER** Nov - Oct, 2020

University of Pittsburgh

As the fabrication lead, I played a crucial role in the manufacturing, assembly, and testing of our projects. I contributed to the design of a solar-powered model rover that went on to win first place in all categories and be voted the best rover in a class of 160 students. This project introduced me to FDM 3D printing and laser cutting wood.

## Experience

### RESEARCH & DEVELOPMENT ENGINEER INTERN

DIAMOND KINETICS

Mar 2022 – Aug 2022

Pittsburgh, PA

- Design, prototype, and test new concepts for current and future product lines.
- Prototype and implement new manufacturing and testing methods.
- Experiment design & execution to verify and validate components in software, hardware, and firmware.
- Document test reports and recommend improvements to experiments and data processing methods

### INTERN

ACUDYNE SYSTEMS INC.

Oct 2018 – Jun 2019

Newark, DE

- Assisted engineers on the assembly floor with daily tasks such as laying cables, gluing components, and generating data from test runs.
- Observed a machinist on the fabrication floor and verified that manufactured parts met required tolerances (QC).

### UNDERGRADUATE RESEARCH ASSISTANT

UNIVERSITY OF PITTSBURGH

Sep 2022 – Now

Pittsburgh, PA

- Primary role is image labeling, which involves manually assigning labels or tags to a set of images.
- Labeled images are used to train an AI model using a supervised learning algorithm.
- Goal is to achieve a precise melt pool temperature to reduce splatter during fusing.

### SHIFT SUPERVISOR

CVS

Jun 2017 – Apr 2020

Pittsburgh, PA

- Assisted customers with their purchases and provided excellent customer service
- Communicated effectively with customers, team members, and management
- Started as a cashier and worked my way up to Shift Supervisor

### DISHWASHER

THE WHIP TAVERN

Jun 2019 – Aug 2020

Coatsville, PA

- Worked in a fast-paced, stressful environment to deliver tableware.
- Assisted with receiving and storing ingredients.

### HOTWALKER

TOM PROCTOR RACING

Jun 2016 – Aug 2016

Fair Hill, MD

- Cared for race horses before and after they trained
- Maintained a clean stable environment