

## Education

**Carnegie Mellon University** | Pittsburgh, PA

Expected Graduation Date: May 2026

Bachelor's of Science: Mechanical Engineering

Bachelor's of Science: Computer Science

GPA: 3.61/4.0

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## Experience

**SURA Researcher** | Pittsburgh, PA | Summer 2024

Carnegie Mellon University (Legged Systems Group)

- Developed an MLP Neural Network to make path predictions for a robotic prosthetic leg.
- Modified and improved upon the control code for the leg to run with the AI system.

**Software-Development-Intern** | Boulder, CO | Summer 2023

Software-Development-Experts

- Developed data processing software to scrape from an API and process it to extract and reformat information.
- Set up an auto-deploying website's infrastructure using Jenkins, Docker, and Kubernetes.

**Carnegie Mellon Rocket Command** | Fall 2022 – Fall 2023

- Programmed a Raspberry Pi to receive and decode radio broadcasts then move servos and take photos based on the contents of the transmission.
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## Projects

**Space Hanger Project** | Mechanical Design Fall 2023

- Designed a member out of acrylic to withstand a 50 lb load and thermal expansion.
- Minimized the mass to 3.7 grams which successfully held 50 lb.
- Iterated design and testing using Solidworks simulation and experimentation.

**Hack-112** | Computer Science Spring 2023

- Competed in a hackathon, made a 3D world generation game with ambient and directional light to win 1st place.

**Mobot Project** | Mechatronics Fall 2022

- Wrote C++ for an Arduino-based mobot to follow a path using color sensors and stop at a distance from a wall.
  - Won first place for my robot finishing the course the fastest in the class.
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## Leadership Experience

Teaching Assistant for Fundamentals of Programming (15-112)

Carnegie Mellon University | Fall 2023 - Present

- Taught recitation twice a week as well as mentoring 11 students through making a ~1000 line project from scratch.

Resident Advisor Carnegie Mellon University Fall 2023

- Present Planned large events for my housing community and used conflict resolution and mediation skills to resolve disagreements between residents.
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## Skills

**Mechanical Engineer Skills:** CAD, Matlab, Excel, Laser cutting, 3D printing, FEA, Ansys Discovery, Arduino, Raspberry Pi

**Computer Science Skills:** Python, C, SML, VBA, Pytorch, Computer Systems, OOP, Imperative and Functional Programming