

# Ashley Heckman

agh93@cornell.edu | (517) 715-3414 | <http://agheck.github.io>

## School Address

815 S Aurora St  
Ithaca, NY 14850

## Home Address

14045 Hampshire Bay Circle  
Winter Garden, FL 34787

## Education

### Cornell University (Ithaca, NY)

January 2024 – December 2024 (Expected)

- M.Eng. Electrical and Computer Engineering

### Cornell University (Ithaca, NY)

August 2020 – May 2024

- B.S. Electrical and Computer Engineering
- Computer Science Minor
- Dean's List

### Brighton High School (Brighton, MI)

August 2016 – May 2020

- High School Diploma
- Top 2%
- 4.25 Weighted GPA, 4.0 Unweighted GPA

## Selected Projects (Check out my website for more information and projects)

### Plant Watering System

Using a Raspberry Pi and external sensors, autonomously water the selected plant. Includes a nice user interface for the user to select their plan and watering mode.

### Computer Processor

Develop a computer processor capable of running basic programs.

### Autonomous Robot

Using an Arduino and external sensors, navigate through a maze until two treasures are found and analyzed.

## Skills

- C
- C++
- Linux
- Python
- Verilog
- Quartus
- Vivado HLS
- Microcontroller Programming
- Computer Architecture
- Waveform Debugging
- Oscilloscopes & Function Generators
- GitHub
- Microsoft Office
- Communication
- Teamwork
- Problem Solving

## Work Experience

### Systems Engineer Intern D

L3Harris Technologies (Palm Bay, FL)

May 2023 – Dec 2023

- Created a document detailing what is required from the satellite operation center
- Reviewed hardware requirements
- Helped configure virtual machines
- Created sequence diagrams to describe code
- Found alternative parts for products with long lead times
- Received, tracked, and unboxed material
- Installed rack components & labelled and wired rack cables

### Embedded Software Engineer

Cornell Hyperloop (Ithaca, NY)

August 2022 – Jan 2024

- Design electronic systems to control a hyperloop pod
- Build circuits using Arduino and sensors; write software to control the state of the pod; read sensor data; communicate data to GUI

### Embedded Operating Systems TA

Cornell University (Ithaca, NY)

August 2023 – Present

- Cover a lab section. Guide students through the lab, answer questions, and debug any issues that arise
- Grade homework, lab reports, and final projects

### Undergraduate Resident Fellow

Keeton House (Ithaca, NY)

August 2022 – May 2024

- Serve as a peer mentor; help build a safe and welcoming community; plan/promote a variety of programs and activities; provide assistance, resources, and referral information to students