Ashley Heckman

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School Address	**Home Address**
273 Keeton House	5259 River Ridge Dr
Ithaca, NY 14850	Brighton, MI 48116

Education

Cornell University (Ithaca, NY) **January 2024 – December 2024 (Expected)**
- M.Eng. Electrical and Computer Engineering

Cornell University (Ithaca, NY) **August 2020 - May 2024 (Expected)**
- B.S. Electrical and Computer Engineering
- Computer Science Minor
- Dean's List
- 3.7 GPA

Brighton High School (Brighton, MI) **August 2016 – May 2020**
- High School Diploma
- Top 2%
- 4.25 Weighted, 4.0 Unweighted GPA

Relevant Courses

- Intro to Circuits for ECEs
- Digital Logic & Computer Organization
- Computer Systems Programming
- Embedded Systems
- Embedded Operating Systems
- Intelligent Physical Systems
- Computer Architecture
- Digital Systems Design Using Microcontrollers
- Advanced Microcontroller Design
- Intro to Digital (VLSI) Design
- Foundations of Robotics
- Foundations of Artificial Intelligence
- Calculus, Linear Algebra, Differential Equations
- Physics I, Physics II, Physics III

Skills

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

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 - Present**
- 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