

# ESTHER IN

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## **EDUCATION:**

**Cornell University College of Engineering**, Ithaca, NY

*Class of 2022*

Electrical and Computer Engineering (major), Computer Science (major)

## **SKILLS & RELEVANT COURSEWORK:**

- Python 3, Java, Quartus II, Verilog, Laboratory Research and Development, Data Analytics (including Python libraries Pandas, Numpy, Seaborn), Tableau, Data Organization, Database Management, Project Management, Team Management, Microsoft Office (Word, PowerPoint, Excel), HTML & CSS, Basic Computer-Assisted Design, Basic C++
- CS 2110: Object-Oriented Programming & Data Structures, CS 2800: Discrete Structures, ECE 2300: Digital Logic & Computer Organization, ECE 2100: Introduction to Circuits for Electrical and Computer Engineers, ENGR 1210: Computing Technology in Smartphones

## **RECENT EXPERIENCE:**

### **CACI International Inc**

*June 2019 – Current*

*Innovation Research and Development Intern*

- Examined Software-Defined Networking solutions and Zero Touch Provisioning processes for security concerns using commercial hardware as part of the six person IR&D team, drafting theoretical solutions for evaluated hardware security problems and collaborated with the team to prototype, test, and develop preliminary solutions.
- Evaluated a database of over twenty thousand entries for insights into Federal Aviation Administration (FAA) network infrastructure, analyzing trends and data points for data integrity and accuracy using Single Pane of Glass software and Python (Numpy, Pandas) programming.
- Programmed commercial hardware using C++ and Arduino IDE in order to prototype radio-based information transmission solutions, and field-tested prototypes at offsite locations.
- Presented summer projects to executives at the sector's end of internship presentations.
- Currently working with open source MQTT data broker software, as well as continuing the data analytics project.

### **Montgomery College**

*June 2019 – August 2019*

*Data Analytics Bootcamp*

- Completed data analysis projects using Python (including libraries Pandas, Numpy, and Seaborn) and became proficient at using the data visualization software Tableau.
- Received the certificate of completion for the 60-hour course.

## **ACTIVITIES:**

### **SWE Corporate Relations Liaison**

*September 2019 – Current*

- Represents the Society of Women Engineers at company information sessions; responsible for communicating with company recruiters and facilitating work at the session.

### **SWE High School Outreach Committee**

*September 2018 – May 2019*

- Planned, organized, and executed an event for 30 high school attendees as part of the High School Outreach Committee of the Society of Women Engineers, and was responsible for coordinating with industry speakers from GrammaTech and Corning Incorporated.

### **Harper Co-Head Administrator**

*January 2015 – Current*

- Maintains and assisting in the running and development of an international co-op writing community with a member base of over 100 as part of the moderator staff team.
- Mediates and resolves interpersonal conflicts as well as retain a working knowledge of the community's complex informational bases.
- Provides advice and counsel for administrative staff and coaching for junior moderating staff.

## **U.S. and International Patent Applications**

- "Method and apparatus for harvesting electrical energy from air flow in a moving system," PCT/US18/55781, co-inventor, October 2018.