

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, Autodesk EAGLE, Laboratory Research and Development, Data Analytics (including Python libraries Pandas, Numpy, Seaborn), Tableau, Project Management, Team Management, Microsoft Office (Word, PowerPoint, Excel), Data Organization, Database Management, HTML & CSS, Basic Computer-Assisted Design, Basic C++
- CS 2110: Object-Oriented Programming & Data Structures, CS 2800: Discrete Structures, INFO 1998: Introduction to Machine Learning, ECE 2300: Digital Logic & Computer Organization, ECE 2100: Introduction to Circuits for Electrical and Computer Engineers, ENGRI 1210: Computing Technology in Smartphones

RECENT EXPERIENCE:

Innovation Research and Development Intern

June 2019 – Current

CACI International

- Project Manager for examining Software-Defined Networking solutions and Zero Touch Provisioning processes for security concerns using commercial hardware. Created a project timeline for the six person IR&D intern team regarding drafting, prototyping, and testing proposed solutions, and readjusted the project timeline as necessary throughout the summer.
- 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.
- Presented summer projects to executives at the sector's end of internship presentations.

Cornell Mars Rover Electrical Member

October 2019 – Current

- Designed a compact distributed task motor driver board in Autodesk EAGLE that will be operating the end effector motor of the competition rover in the 2020 University Rover Challenge.
- Currently assembling, programming, and testing the board with MPLAB and PCAN-view.
- Interfaces with and assists with the Computer Science subteam as required.

Montgomery College Data Analytics

June 2019 – August 2019

- Completed data analysis projects using Python (including libraries Pandas, Numpy, and Seaborn) and became proficient at using the data visualization software Tableau.

ACTIVITIES:

Harper Co-Head Administrator

January 2015 – Current

- Maintains and assists 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.

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.

U.S. and International Patent Applications

October 2018

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