

ESTHER IN

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EDUCATION:

Cornell University College of Engineering, Ithaca, NY

Class of 2022

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

National Merit Scholarship 2018 Semifinalist, Silver President's Volunteer Service Award 2016

EXPERIENCES:

Johns Hopkins University

June – August 2017

Lab Research Assistant, Institute of Cell Engineering

- Created and maintained cell media, performed SDS-PAGE gel trials, and utilized laboratory equipment to collect qualitative and quantitative data.

FIRST Tech Challenge Team 9450 Falcons FIRST

June 2017 – July 2018

Electrical Lead, Webmaster, Business Team Member

- Competed with FTC Team 9450 Falcons FIRST at the Maryland State Championships 2018 and FTC World Championships 2018: Detroit.
- Oversaw and managed the electrical sub-team.
- Built and maintained the team website <https://falconsfirstftc.weebly.com/> using prebuilt Weebly toolset and HTML/CSS.
- Drafted and edited business plan for presentation to five sponsors and competition judges.

Poolesville High School

December 2016 – January 2017

Engineer for Simulated Planet Project

- Drafted and created Computer-Assisted Drawing models of miniature rover prototypes.
- Built miniature rover prototypes, successfully navigated simulated planet terrain using sensors and Arduino boards, and presented data and conclusions.

Harper

January 2015 – Current

Co-Head Administrator

- Currently directing an international co-operational writing community.
- Responsible for training and overseeing moderators, maintaining site databases, moderating site content and member participation.
- Responsible for mediating and resolving interpersonal conflicts among members.

SKILLS AND ACTIVITIES:

Skills

- HTML/CSS, Java, and Python
- Soldering, Computer-Aided Design (novice), Power Tools, Table Saw, and Band Saw

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.
- "Method and apparatus for harvesting electric energy from a moving system," U.S. 62/572,391, co-inventor, October 2017.
- "Protective case for mobile device," U.S. 62/579,146, co-inventor, October 31, 2017.

Activities

- Collegiate: Society of Women Engineers High School Outreach Committee, Women in Computing at Cornell
- GirlsGo Cyber Start 2018 First Place (PHS Iliad), Mali Rising: Make the Case for Caring Essay Contest 2017 Finalist, American Youth Philharmonic violinist 2015 – 2018