

ESTHER SHUE

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OBJECTIVE STATEMENT

Seeking an internship opportunity to cultivate experience and exposure in the following areas: real time software/firmware/hardware with a focus on digital/analog communications networking.

EDUCATION

University of Maryland ♦ August 2022 - May 2026 (Expected) ♦ Electrical Engineering

RELATED COURSES

Object Oriented Programming I/II, Digital Logic Design, Electricity, Magnetism & Thermodynamics, Intro to EE & CE

SKILLS

Programming Languages: Java, Python, MATLAB, SparQL, HTML, CSS, C

Software/Framework: Flask, Ontotext GraphDB

Version Control: Git/Github

IDE: Visual Studio Code, Eclipse, Arduino

OE: DOS/Linux/UNIX, MobaXTerm

Tools: Digital Multimeter, Soldering Iron

Languages Spoken: English(Native), Mandarin Chinese(Fluent)

WORK EXPERIENCE

Resident Life at Univ. Of Maryland

Jan 2023 - Present

Community Assistant

- Work with law enforcement to ensure student safety throughout the academic year
- Handle and audit student and staff packages, keys, and swipe access for residential hall
- Assemble incident reports for administrative action as well as for police investigation

Univ. of Maryland Laboratory

Jun 2023 - Aug 2023

Developer Intern

- Create a game on a web application using Python and NLTK on Flask framework
 - Research responses from ChatGPT utilizing API to tune callbacks
 - Analyze RDF triples in GraphDB with SparQL query language to access and select synsets
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PROJECTS

Course Project

Sep 2023

- Develop functions to modify the commands for a hypothetical processor intended for embedded systems
- Create a program for machine language processing, code disassembly, and memory address verification/relocation

Over Terrain Vehicle(OTV) Lab Mission: Fire Suppression

Jan 2023 - May 2023

Team Member, Mission and Electronics Subteam

Mission Objectives:

- Design an Over Terrain Vehicle(OTV) with flame-extinguishing capabilities and navigational micro-components
- Navigate through a site to identify randomized topography, transmit flame data, and remove active flames

Role Responsibilities:

- Construct a codebase to integrate microtechnologies into circuit boards and facilitate component interactions
 - Collaborate with a team to develop the OTV product within a constrained budget and adhering to safety regulations
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ACTIVITIES

Sound Technician

June 2020 - July 2023

El Shaddai Congregation

- Responsible for setting up, soundcheck, troubleshooting, and live mixing for worship services
- Utilize sound effects, compressor, and equalizer for improving sound clarity and preventing feedback to maintain a comfortable sound level for the audience