Imani Muhammad-Graham
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EDUCATION

University at Buffalo, the State University of New York
Bachelor of Engineering in Computer Engineering   **May 2022**
Overall GPA: 4.0/4.0
M.S. in Electrical Engineering   **Expected December 2023**

SKILLS

- Programming, Signal Processing, Docker, IoT, Agile Development, Swift, MATLAB

PROJECTS (GitHub: Imani-Es)

Mini Smart Home – IoT Application   **Fall 2022**

- Features a web application, allowing remote access and control of a system embedded with sensors and actuators, mimicking a smart home
- Designed ESP32 based client-server architecture using HTML, and JavaScript
- Programmed sensor and actuator functionality using C++

Bored Nerds – iOS Application   **Fall 2022**

- iOS app focused on education and entertainment, providing a fun environment to learn about sensors and signals to people interested in Tech.
- Incorporated OOP, and other good programming practices in Swift to develop native app content
- Utilized Figma, GitHub and XCode to design and deploy application

RAS Gait Sensor – Integrated Systems   **Fall 2021 – Spring 2022**

- Designed an Integrated System utilizing Circuit design, Embedded system design, Web development, and 3d Printing skills in a team of 4
- System intended to aid in Rhythmic auditory stimulation in gait training for Parkinson's disease patients by collecting & displaying data on joint movement via web application, and playing music

WORK EXPERIENCE

ARM   Virtual
Technology Communications Intern   **Summer 2021**

- Liaised with researchers and engineers, utilizing tools like Excel, Verilog, and DITA to organize, develop, and revise technical documentation on both CPU and Physical Design teams
- Generated python scripts to enhance communication between hardware engineers and information developers, and automate content development

Embedded and Digital Systems   University at Buffalo
Teaching Assistant   **August 2021 – May 2022**

- Facilitate environments for students to learn about Digital Logic, Embedded Systems, and Microprocessor Architecture through Laboratory and office hours
- Assist students in debugging and troubleshooting their embedded system projects

ORGANIZATIONS

- Schomburg Leadership Fellow, University at Buffalo School of Engineering
- Co-Host, UB Men of Color, September 2021 – Current
- Community Assistant, University at Buffalo, August 2022 – Current
- Graduate Assistant, UB Diversity in STEM, June 2022 – Current
- Member, NSBE, 2019 - Current