SEMILORE KAYODE

Canadian Citizen | Online Portifolio: [Semilore Kayode](#)

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Education

Dalhousie University	**Sep. 2020 – Current**
Bachelor of Engineering in Electrical and Computer Engineering	*Halifax, Nova Scotia*

Relevant Coursework

- Analog Electronics
- Operating Systems
- Communication Systems
- System Analysis
- Electromechanics
- Computer Architecture
- Microprocessors
- Data Structures

Experience

Dugo Systems	**Jan 2024 – Apr 2024**
Product Manager Intern	*NS, Canada*

- Implemented rigorous validation processes in collaboration with technical experts to ensure data accuracy and reliability in battery calculations and conductance values.
- Led the investigation into battery management capabilities, enhancing platform accuracy and reliability.
- Updated the database with the latest information on rectifiers, DC plant controllers, and batteries.
- Conducted in-depth analyses of platform features, identifying key usage scenarios and benefits, which facilitated client understanding and satisfaction.

Imhotep's Legacy Academy	**June 2023 – August 2023**
STEM Activity Developer	*City, State*

- Created Science, Technology, Engineering and Math related activities for students in grades 6 – 9 to participate in.
- Educated and mentored up to 50 students from grades 6 – 9 in programming, enabling them to create their own game.

Projects

Home Security System	*C, Circuit Analysis, Microprocessors*	**Jan 2023 – Apr 2023**

- Tasked with designing, building, and implementing a home security system. Collaborated with a group of four to successfully implement.
- Assumed the role of project leader, took initiative testing and utilizing key components, and integrating the entire system.
- Through a series of brainstorming, calculation, and testing, using C programming, the team was able to implement the system. The system included a keypad for the owner to arm the system, LEDs and an LCD screen that corresponded to the status of the system, sensors which detected an intruder and an audible siren which alerted the owner of an intruder.

Autonomous Electric Delivery Vehicle	*C, System Analysis*	**Sept 2023 – Dec 2023**

- Contributed to a team project designing key components of an autonomous vehicle system including pickup and delivery protocols, and initial framework for a dynamic billing system.
- Developed software aiming to optimize urban navigation and logistics management, focusing on real-time adjustments to cityscape changes and efficient routing despite incomplete features due to project time constraints.
- Implemented navigation and operational protocols for AEDVs, ensuring compliance with urban traffic rules and preliminary accident management strategies, enhancing system reliability and performance in simulated environments.

Volunteering

Safe Harbour Research & Technologies	**Mar 2024 – Present**
Engineering Project Volunteer	*Emera IdeaHub*

- Installed and configured solar panels and charge controllers for underwater technologies at Safe Harbour Technologies, enhancing the sustainability and efficiency of energy systems.
- Evaluated and enhanced safety protocols for underwater equipment, focusing on innovative heat release methods to ensure operational safety and compliance with industry standards.
- Optimized Python code for advanced underwater technology applications, improving script readability and system performance, which facilitated more efficient project development and deployment.

Technical Skills

Languages: Python, C/C++, HTML/CSS, MATLAB
Developer Tools: VS Code, GitHub
Simulation Tools: SolidWorks, LT Spice, TINA-TI, ROS 2(middleware), Gazebo