Dwayne Burton

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Technical Skills

Languages (Proficient): Python, C, C++.
Languages (Familiar): HTML, CSS, JavaScript.
Developer Tools: Git, VS Code, Jira, STM32, ARM, MS Office.

Education

Bachelor of Applied Science, Honors Electrical Engineering Co-op   **Expected Graduation: Apr 2027**
University of Waterloo   Waterloo, ON
- **Courses:** Fundamentals of Programming **(C++)**, Linear Algebra, Calculus 1, Classical Mechanics.
- **Activities:** Firmware Team Member of Waterloo Formula Electric, Electrical Engineering Ambassador and Member of the Computer Science Club.

Projects

Personal Website [Under Construction]   Dec 2022 - Present
- Implemented responsive design techniques to ensure the website is mobile-friendly **(HTML, CSS, JavaScript)**.
- Utilized JavaScript to add interactive features such as a drop-down menu.
- Applied styling using CSS to enhance the visual appeal of the website.

LeetCode   July 2022 – Present
- Solved over 60+ Data Structures and Algorithms questions involving HashMaps, Trees, Stacks, Queues, Arrays, Recursion, Sorting, DFS and BFS **(Python)**.

Eden: Environmental Scanner for Planting Purposes   Nov 2022
- Developed an STM32 Nucleo Board algorithm to interpret information from a photoresistor and a temperature and humidity sensor **(C, STM32)**.
- Designed a dynamic output for an LCD screen that displays variable data, alternating between necessary information.

Experience

Waterloo Formula Electric - University of Waterloo   Sept 2022 – Dec 2022
Firmware Team Member   Waterloo, ON
- Tested vehicle dynamics algorithms using STM32 Nucleo Boards to increase the vehicle's speed and efficiency while abiding by Formula SAE Electric rulesets **(C, STM32, ARM, Jira)**.

STEM Club - Ajax High School   Feb 2022 – June 2022
Founder/President   Ajax, ON
- Led weekly meetings of 12 executive members to discuss event ideas incorporating STEM concepts for Grade 9 and 10 Students.
- Designed challenges such as Mathematics Themed Escape Room, Engineering Catapults and Chemistry/Biology Experiments that each attracted over 60+ students.

STEM Tutor - Ajax High School   Sept 2021 – June 2022
Volunteer   Ajax, ON
- Enhanced the proficiency of Grade 9 and Grade 10 students in Mathematics and Science by an average of 30% by using real-world examples and explaining complex concepts more thoroughly.

Board Games Club - Ajax High School   Jan 2019 – Mar 2020
Founder/President   Ajax, ON
- Established the largest student-run club at Ajax High School by organizing daily games for students.
- Led a team of four executive members while organizing meetings, delegating tasks, and acting upon their feedback.