Brandon Fong

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Education

University of Calgary   Expected graduation: May 2025
Bachelor of Science in Electrical Engineering   GPA: 3.58/4.00

Experience

University of Calgary Solar Car Team - Electrical Team Member   Oct. 2022 – Present
- Performed thorough solar cell testing to enhance energy efficiency and competitiveness of the vehicle
- Improved the wiring and organization within car to make it more efficient

Asia Infrastructure Solutions – Electrical Engineer Intern   May 2023 – Aug. 2023
- Effectively utilized AutoCAD for diagramming road layouts and overlaying with electrical infrastructure
- Utilized Dialux to simulate multiple lighting scenarios, ensuring fulfillment of government specifications

University of Calgary - Web Developer   Nov. 2022 – Apr. 2023
- Developed a React dashboard web application to aggregate and display geothermal drilling data
- Utilized React, Python and PostgreSQL

Real Canadian Superstore - Produce Clerk   Oct. 2019 – Sept. 2022
- Efficiently addressed customer complaints or concerns in a timely fashion
- Trained and led 5 new hires to proficiency

Projects

University of Calgary | Country Information Visualizer
- Documented a terminal-based application to read country statistics off external files, accept user input and return readable data
- Designed an interface that allowed users to gain access to specific country statistics and information
- Developed a python application to aggregate data using matplotlib regarding a country's population statistics

University of Calgary | Cipher Program
- Terminal-based application designed for encoding and decoding text based on a provided cipher algorithm
- Depending on the user input, the text would be decoded using a hidden cipher or encoded using an algorithm
- Handled incorrect inputs, as well as terminating only when user input requested

University of Calgary | School Statistics Program
- Designed a terminal-based application for computing, printing, and plotting statistical information given on specific school selected
- Created and manipulated arrays using the NumPy module, as well as manipulated and executed NumPy array computations
- Plotted data using matplotlib regarding school enrollment numbers

Skills

Hardware: Oscilloscope, Function Generator, Soldering, Arduino
Languages: Python, C, HTML, CSS
Technologies: React, Git, MATLAB, AutoCAD, Fusion 360, Altium Designer, MPLAB, Quartus, Tailwind, Dialux