Caylia Bonnick

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https://github.com/cayliab03

EDUCATION

McMaster University 09/2021 – 04/2025
Pursuing a bachelor's degree in Electrical Engineering

TECHNICAL SKILLS

Programming Languages
Python, C/C++, CSS, JavaScript, HTML, MATLAB, R, Verilog, VHDL

Equipment Expertise
Breadboard, Oscilloscopes, Digital Multimeters, Signal Generators, Function Generators, Voltage and Current Probes, Integrated Circuits

Tools
GitHub, Visual Studio Code, Eclipse IDE, R Studio, Analog Discovery 2, Autodesk Inventor, Raspberry Pi, Microsoft Office, ORCAD PSpice, Quartus II

Spoken Languages
Fluency in English and French

EXPERIENCE

McMaster Women* in Science and Engineering (WISE) 11/2022 – Present
Crest Research & Conference Executive Director
- Spearheading the "Current Research in Engineering, Science, and Technology" annual regional conference with a team of other women in the science and engineering field
- Hosting the "GenerationSTEM" workshop with panels, research presentations, and lab tours for female high school and undergraduate students interested in pursuing a degree in STEM as well as providing networking opportunities

Real Canadian Superstore 10/2019 – Present
Joe Fresh Sales Associate
- Ensuring all customers receive excellent service through courteous salesmanship, and prompt service. Maintaining a **100% positive** customer and employer feedback score
- Recently assigned to "Ship from Store" service based on my efficiency and ability to perform well under pressure. This position entails handling sales, shipments, and returns through a POS software system
- Stocking, replenishing, and organizing merchandise with accuracy and efficiency

PROJECTS

Portable Game Console
- Built a portable game console using a Raspberry Pi 4 and Retro Pie, a classic video game emulator
- Used a hard case to house the console and a power bank to supply portable power
- Connected a bluetooth controller as well as a monitor to the Raspberry Pi
- Flashed Retro Pie onto a microSD card and installed game ROMs
- Added a power button to the Raspberry Pi to ensure safe shutdown

Personal Website
- Created a static website hosted on GitHub Pages
- Files are written in HTML, CSS, and JavaScript
- Showcases my experiences, projects, and achievements
- Uses Formspree to receive contact from clients

Sorting Robot
Associated with McMaster University
- Used Python to program a recycling robot to sort, transport, and deposit containers made of different materials to their corresponding recycling bins in the Quanser Interactive Labs interface
- Used a colour sensor to ensure each container was properly identified and deposited into the correct bin
- Used an infrared sensor to have the robot follow a leading line around the track