

Maya Taylor

Portfolio: maya-taylor.github.io

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EDUCATION

- **University of British Columbia** Vancouver, BC
Bachelor of Applied Science in Electrical Engineering; CGPA: 88.3% September 2022 - May 2027

TECHNICAL EXPERIENCE

- **Vermilion Energy** Drayton Valley, AB
Field Engineering Student May 2024 - Present
 - Identified areas for power consumption optimization and created suggestions to reduce power costs by up to \$3000 per month using a combination of control system adjustments and addition of capacitors
 - Repaired and tested emergency alarm systems for oil/gas wells and oil batteries
 - Performed mechanical pigging of pipelines and tested samples of oil and gas from wells and oil treaters
 - Programmed control systems to effectively manage tank levels and machine capacity in an oil processing battery
- **Mattamy Homes** Calgary, AB
Land Development Coordinator - Student May 2023 - August 2023
 - Created community site plans, residential planting plans, and lotting plans using AutoCAD
 - Drafted alternative lotting and blocking plans and created budget takeoffs to identify more profitable design option - produced alternatives with 5-15% more profit
 - Investigated utility plans (Enmax, Shaw, Telus, ATCO, Fortis) for potential conflicts between transformer, pedestal, and vault infrastructure and made recommendations for improvements to plans
 - Completed site visits to better understand construction completion status and assess working conditions

OTHER EXPERIENCE

- **University of British Columbia** Vancouver, BC
Senior Residence Advisor August 2023 - Present
 - Facilitated the development of an effective 6-person advisor team by creating a culture of consistency, communication and support
 - Provided leadership to a small team by scheduling and facilitating weekly meetings focused on topics such as team consistency, residence programs and events, and community concerns
 - Equipped residents with information and assistance for personal, academic and administrative concerns and made appropriate referrals
- **Best Buy** Calgary, AB
Customer Service / Computer Sales Representative October 2021 - August 2022
 - Advised customers on computer models based on their technical requirements and needs
 - Performed returns, administered warranty claims, and administered financing for large transactions

PROJECTS

- **Alarm Clock on N76E005 Microcontroller:** Fully-settable alarm-clock programmed in Assembly 8051
- **Metal Detecting and Radio-Controlled Car:** Built using oscillators, JDY40 radios, EFM8 and STM32 microcontrollers, robot controllable via both laptop and joystick – radio signals optimized for noisy environments
- **PCB Arduino Shield - UBC Rocket Payload** Created on Fusion to record data from microbial fuel cell payload
- **Simple RISC Computer:** Computer created using Verilog, Assembly and Quartus on a DE1-SOC FPGA board

SKILLS

- **Programming:** C, Assembly (8051/ARM), Python, Verilog/SystemVerilog, MATLAB
- **Software:** Excel, AutoCAD, PuTTY, Eagle/Fusion (PCB Design), Quartus, Visual Studio, SOLIDWORKS

INTERESTS

- **Volunteering:** Basketball Referee, Calgary Pride Events
- **Hobbies:** Weightlifting, Volleyball, Calligraphy