

Aleksandar Filipovic

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EXPERIENCE

Electrical Engineering Intern

May 2025 – July 2025

MCW Consultants LTD

Vancouver, BC

- Conducted electrical design with Vancouver's YVR Airport, focusing on power distribution schematics and energy-efficient lighting systems for a 28,000 square meter area
- Generated over 15 detailed electrical site plans and single-line diagrams in AutoCAD and Revit, ensuring compliance with Canadian Electrical Code (CEC) standards
- Authored technical specification documents and project submittals for client review
- Collaborated with mechanical and civil engineering teams to integrate power systems into building designs

Mechatronics Sub-Team

September 2025 - Ongoing

UBC BAJA, BAJA SAE

Vancouver, BC

- Designing a real-time CVT temperature monitoring system using infrared sensors to prevent belt failure
- Refactoring CANBus communication protocol to decrease data latency by 15%
- Designed a 4-layer data acquisition PCB in Altium Designer, integrating an STM32 microcontroller

Sales Associate

November 2023 – January 2025

Hills of Kerrisdale

Vancouver, BC

- Delivered personalized customer service and sales support in a high-end retail environment
- Consistently met and surpassed daily sales targets in a fast-paced, performance-driven setting

PROJECTS

Minesweeper Python Project | *Python, Tkinter, OOP*

August 2025

- Engineered a Minesweeper clone in Python, developing core game logic, win/lose conditions, and customizable grid sizes using an Object-Oriented Programming (OOP) class-based system
- Utilized the Tkinter library to design and build the complete graphical user interface (GUI)

Arduino Automated Claw | *C, Arduino, Fusion 360*

January 2025 – February 2025

- Designed and programmed an Arduino-controlled automated claw using C, implementing precise motor control logic
- Prototyped and iteratively refined the mechanical design using 3D modeling in Fusion 360

TECHNICAL SKILLS

Programming Languages: C, Python, MATLAB

CAD & PCB Design: Altium Designer, Revit, AutoCAD, Solidworks

Hardware & Protocols: STM32, Arduino, CANBus, I2C

Software & Tools: Git, LTspice, MS Office

Lab Equipment: Oscilloscope, Multimeter, Power Supply, Logic Analyzer

EDUCATION

University of British Columbia

Vancouver, BC

Bachelor of Applied Science - Electrical Engineering

Expected April 2028

- CGPA: 85.6%
- Relevant Coursework: Integral Calculus (93%), Electrostatics and Magnetism (89%), Mechanics (92%)