

# LIAM KING

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## EDUCATION

**Bachelor of Engineering in Electrical Engineering (BEng), (GPA: 3.8, A- Average)** 2024 - Expected 2028  
University of Victoria, Victoria, BC

**Dual Dogwood Diploma,** 2019 - 2024  
**W.L. Seaton Secondary,** Vernon, BC

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## TECHNICAL SKILLS

**Programming:** C/C++, Python, MicroPython, ARM Assembly, R, VHDL, HTML/CSS/JS.

**Software:** Microsoft Suite (Excel, PowerPoint, Word), Visual Studio, MATLAB, R Studio, Eclipse.

**Communication:** Formal Report and Study Writing, Professional Written and Verbal Communication.

**General Knowledge:** Circuit Design, Computer Architecture, Microcontrollers, Statistical Analysis, Sensors, Soldering.

**Operating Systems:** Windows, Mac.

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## PROJECTS

Please see my portfolio at: [liamking.org](https://liamking.org)

### Clap-Controlled Smart Lamp

Personal Interest Project

- Programmed an embedded system with a signal input to control a lamp.
- Debugged hardware and eliminated false triggers.
- Used MAX9814 and a Raspberry Pi Pico W as an ADC converter and logic processor.
- Learned soldering, timing logic, wiring stability, and iterative testing.

### HALO Website

Volunteering for Work on a Startup

- Learned front-end development, data handling, and user interface design.
- Used HTML, CSS, and JS to develop a website and handle user-inputted data.

### Smart Climate Control Device Prototype with Raspberry Pi Pico W

January 2024 - April 2024

Project for Engineering Design Class

- Developed circuit and coding skills using a Raspberry Pi Pico W attached to a breadboard.
- Linked sensors, such as a temperature sensor, light sensor, and UV sensor, to track the user's body temperature and relay information from the remote controller.
- Processed data using MicroPython in conjunction with JavaScript to communicate with the user, displaying information on a connected website.
- Linked adjustable parameters of comfortable room temperature from the website and remote controller to the Raspberry Pi Pico W.

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## CERTIFICATIONS & AWARDS

- University of Victoria President's Entrance Scholarship (2024)
  - Mathematics and Statistics Certificate of Achievement (2025)
  - Dual Dogwood Diploma (2024)
  - CPR and First-Aid Training (2019)
  - CSIA Level 1 Certification - Ski Instructor Training (2022)
  - Class 5 BC Driver's License
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## PROFESSIONAL EXPERIENCE

**General Production Employee** May 2025 - August 2025  
**Tolko Industries, Lavington, BC**

- Worked in the finishing end of the sawmill, facilitating the organization of lumber leaving the sawmill as well as cleanliness of the jobsite.
- Laboured and multitasked throughout 9-hour shifts while maintaining a positive attitude and concentration.

**Server** June 2024 - August 2024  
**The Kal Eatery, Vernon, BC**

- Ensured timely and efficient delivery of food to tables, while creating a welcoming and friendly atmosphere for customers.
- Managed hundreds of payments and meals per day, keeping track of bills and ensuring food safety at all times.

**Ski Instructor** December 2021 - March 2024  
**SilverStar Mountain Resort, Silver Star, BC**

- Instructed children ages 3-12, teaching how to perform basic skiing movements and to properly manoeuvre on the hill.
  - Multitasked and guided a group of over 20 children while maintaining a positive attitude, sense of humour, problem-solving skills, and guest service skills.
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## ACTIVITIES & INTERESTS

- Baking, Rock Climbing, Calisthenics, Chess, Skiing, Video Games, and Backcountry Camping.
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## REFERENCES

**Adam Fawkes**, Associate Principal Architect at HCMA Architecture + Design  
a.fawkes@hcma.ca

**Dr. David Jones**, Professor at the UBC Department of Physics and Astronomy  
djjones@phas.ubc.ca | 604-822-2754