

# Kelvin Hall, P.Eng., M.Eng.

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## EMPLOYMENT

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### **Powertech Labs**

**Surrey, British Columbia**

Senior Electrical and Controls Engineer, Hydrogen Infrastructure

March 2023 – Present

- Design hydrogen refueling stations for public and private facing vehicle applications, serving as the technical lead for power distribution, instrumentation selection, electrical schematic design, controls engineering, as well as PLC/HMI/SCADA development and testing.
- Lead and coordinate a team of six engineers through the technical and operational challenges of delivering products in a fast-evolving regulatory environment with stringent safety requirements.
- Serve as the systems engineering point of contact across multiple concurrent projects, bridging interdisciplinary domains to ensure cohesive and successful project delivery.

### **Iron Code Engineering**

**Kamloops, British Columbia**

Automation System Designer, Engineering Department

Jan. 2015 – March 2023

- Automation System Designer with Iron Code Engineering, operating as the main point of contact between the company and clients on projects. Iron Code is a medium sized control system integration company mainly servicing in the natural resources sector with a strong focus on softwood lumber mills, and open pit mining.
- In this position I lead teams to complete the required Electrical Design, Part Selection, Network Layout, PLC programming, HMI design, Camera and other specialty devices integration, third party communication, data gathering and analysis, on site commissioning, and project follow up.

### **McMaster University**

**Hamilton, Ontario**

Textbook Solution Author, Cognitive Systems Laboratory

Sep. 2013 – Sep. 2014

- Created official solution manuals for textbooks on adaptive filtering and digital communication. Worked with Publishers and textbook author to create value added literature.

## EDUCATION

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### **McMaster University**

**Hamilton, Ontario**

Masters of Engineering – Computer and Electrical Department

Nov. 2014

- **GPA:** 3.96 / 4.0
- Specialized in adaptive control analysis and implementation with a focus on adaptive filter theory for use in adaptive control situations.

### **Lakehead University**

**Thunder Bay, Ontario**

Bachelor of Engineering – Electrical

Jun. 2013

- **GPA:** 3.9 / 4.0
- Focus in control systems and industrial electronics

### **British Columbia Institute of Technology**

**Burnaby, British Columbia**

Associates Degree – Mechatronics and Robotics Technologist

Jun. 2010

- **GPA:** 3.82 / 4.0

Associates Degree – Wireless Communication Technician

Jun. 2008

- **GPA:** 3.95 / 4.0

Certificate of Completion – Electronics Technician Common Core

Jun. 2007

- **GPA:** 3.92 / 4.0

## **SKILLS and CERTIFICATIONS**

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**Technical Skills:** System design, PLC programming (Allen Bradley ladder logic & structured text, some Siemens), HMI programming (FTView ME, SE, Beijer, C-More, and Ignition), SCADA, Drives (PowerFlex, Kinetix, Mitsubishi, Yaskawa, ABB), Electrical Drafting (AutoCAD, Draftsight, SolidWorks), Visual Basic Programming, Vision System Design (IFM, LMI, Cognex), Project Management, Safety Systems, Network Layout, Robotics (ABB, Yaskawa, Fanuc, Universal)

**Certifications & Training:** see <https://khal1987.github.io/> for partial list of training completed.

Registered with EGBC, and PEO as a Professional Engineer in the provinces of British Columbia and Ontario respectively.

**References available upon request.**