

Henry Marken

Edmonton, AB | hmarken@ualberta.ca | (780) 850-1979

Education

University of Alberta

Class of 2022

Bachelor of Science in Electrical Engineering

- Graduated Grade Point Average (GPA): 3.4/4.0
- Relevant Courses: Programming for Electrical Engineers, Embedded System Design, and Intelligent Systems

Skills

Software Applications: Microsoft Office 365, Google G Suite, KiCad, MySQL, LabView, and LTspice

Programming Languages: Python, C, C++, MATLAB, SQL, and Assembly

Lab Instruments: Multimeter, Oscilloscope, Function Generator, Logic Analyzer, and Variable AC/DC Power Supply

Work Experience

Profire Energy

April 2022 – Present

Quality Control Test Engineering-in-Training

- Automated test fixtures using Python to identify counterfeit parts within a circuit which increased production by 35%
- Developed test firmware using C and LabVIEW software to assess safety standards of 200+ systems/day
- Collaborated with the R&D team to help create new safety circuits and tests to minimize product issues
- Repaired defective products with signal data and circuit issues, using a Saleae logic analyzer and multimeter
- Supported production at the manufacturer for version updates by debugging test firmware and hardware issues

Enterra Feed Corporation

January 2020 – April 2020

Operations Engineering Intern

- Identified and resolved issues with automation controls on company machines to increase production by 2000kg/day
- Adjusted optical sorter color thresholds, pixel counts, and product intake which reduced sorting time by 2+ hours
- Reviewed and documented standard operating procedures concerning the proper and safe use of company equipment
- Optimized centrifuge speed and gap settings to reduce quantity of waste produced and saved 100 liters/day of product

Volunteer Experience

University of Alberta Student Photography Club

September 2020 – April 2022

President

- Organized club events intended to encourage members to practice new photography styles and techniques
- Managed club memberships, coordinated meetings with club members, and handled club legal documents

TELUS World of Science

April 2018 – September 2018

Science Garage Volunteer

- Designed interactive science projects to inspire kids and simplified complicated topics for a better understanding
- Communicated with a cross-functional team to plan, schedule and facilitate summer camps