NOLAN CAISSIE

4102 8 Ave SW Calgary, AB | 250-580-5700 | nolancaissie.ece@gmail.com

EDUCATION

Bachelor of Engineering, 3rd Year   September 2018 - Present
University of Victoria
Electrical Engineering

Fundamentals of Engineering Certificate   September 2015 – April 2017
Vancouver Island University   Nanaimo, BC
General Engineering   Graduated: April 2017

TECHNICAL COMPETENCIES

- ✓ Operating Systems: OS X, Windows, Ubuntu, Raspbian
- ✓ Software: Proficient in MS Office applications, AutoCAD, KiCad, Cygnet SCADA system, Bluebeam Revu
- ✓ Programming Languages: C/C++, MATLAB, Python, HTML/CSS, Bash/Shell, R, Assembly, VHDL
- ✓ Electrical: Digital logic, soldering, prototyping/diagnostics, regulator/rectifier circuitry, op-amps, diodes
- ✓ Embedded: Arduino, AVR microcontroller, STM407 microcontroller, FPGA, general PLC knowledge

CORE COMPETENCIES

- ✓ Time management: Ability to prioritize key tasks/objectives both personally and professionally
- ✓ Teamwork: Group projects in university, four years bartending, short-term work in multiple industries
- ✓ Leadership/Communication: Peer mentoring, speaking/presenting to first year students, often take lead role in group projects, customer engagement experience
- ✓ Commitment to quality: Great care and attention to detail resulting in superior performance and effectiveness. Recognized through scholarships and work experience.

SAMPLE PROJECTS

Self-Taught Programming Projects
Code Academy/Udemy   May 2019 – Present
- ✓ Python/Bash/Shell/HTML/CSS/Javascript/C#/LabVIEW
- ✓ Designing a portfolio website from scratch

MP3 Alarm Clock
University of Victoria   May 2019 - Present
- ✓ Programming of STM407 microcontroller
- ✓ Use of ASIC for amplification
- ✓ KiCad for circuitry design and PCB

Temperature/Humidity Simulated Sensor
University of Victoria   January 2019 – April 2019
- ✓ Implementation of random number generator algorithm to simulate temp/humidity changes
- ✓ Programming of ATmega2560 in AVR assembly utilizing stack and interrupts
- ✓ Interfacing of LCD and push-buttons

Autonomous Bridge

Vancouver Island University   September 2016 – December 2016
- ✓ PCB/General soldering
- ✓ Programming of Arduino Uno
- ✓ Implementation of transistors, IC's, resistors, capacitors, step-motor, LEDs, and proximity sensors

WORK EXPERIENCE

Encana Corporation   2019-Present

Electrical, Instrumentation & Control Intern
- ✓ Provided solutions for E, I&C projects through drawing revisions, control narratives, and site visits
- ✓ Retrieved relevant data from SCADA system to create autonomous sales flow and process performance reports in MS Excel
- ✓ Developed a Python program to concatenate MS Excel files for data analytics
- ✓ Updated company installation documentation
- ✓ Attend weekly progress meetings with senior engineers in the Technical Services department

Yates Street Taphouse/Old City Station Pub   2016-2018

Bartender
- ✓ Accustomed to a fast paced, high pressure environment
- ✓ Provided organizational solutions to increase efficiency of the bar
- ✓ Interfaced with all levels of staff and management
- ✓ Consistent record of improving operations and exceeding expectations

Logging Trailer Manufacturing/Window Manufacturing & Install/Construction & Hazmat   2013-2017

Machine operator and sandblaster, window glazer, carpenter, asbestos abatement worker
- ✓ Always adhered to strict safety regulations
- ✓ Courses in fall protection, WHIMIS, and safe disposal of asbestos containing materials
- ✓ Provided creative solutions to problems when working in confined spaces and poor weather conditions
- ✓ Quality control in manufacturing

MEMBERSHIPS/AWARDS

- ✓ EGBC/IEEE Student Member
- ✓ William C. Mearns Bursary in Engineering (2019)
- ✓ UVic Bursary Fund (2019)
- ✓ Mid Island CO-OP Award (2014)
- ✓ Fred Clozza Memorial Endowment Bursary (2014)
- ✓ Academic & Career Preparation Award (2014)

ACTIVITIES AND INTERESTS

- ✓ Playing guitar/singing
- ✓ Exercising/Cycling
- ✓ Watching science documentaries/listening to science podcasts/reading science fiction
- ✓ Following AI research and news (Lex Fridman's work in particular)
- ✓ Travelling

References available upon request