

CONTACT

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TECHNICAL SKILLS

Embedded Development

Intermediate

C, C++, FreeRTOS, I2C, SPI, UART, ESP32, ARM Cortex-M, JTAG, Bluetooth, NFC, Make, CMake, Jenkins, Oscilloscopes, Logic Analyzers, Rust

Front End Development

Beginner

React, Redux, Flipper, Android

EDUCATION

**Bachelor in Computer Engineering
at Memorial University of
Newfoundland**

Sep 2015 - May 2020

SUMMARY

B.Eng in Computer Engineering from Memorial University of Newfoundland with a strong background in embedded development and a unique skill set in the creative arts. Practical experience in robotics, data science and firmware development including Mission Control design of Killick-1 GNSS CubeSat, as well as the Mysa Smart Baseboard Thermostat, Smart Infloor Thermostat and Smart Air Conditioner. Skills include RTOS, NFC, C/C++, GDB, Assembly, React, Rust, Python and Bluetooth.

EMPLOYMENT

Boston Scientific

Embedded Developer

Nov 2023 - Present

Boston Scientific is dedicated to transforming lives through innovative medical solutions that improve the health of patients around the world.

- Designing, developing and testing firmware for Class IV medical devices.
- Spearheaded the automation testing initiatives for the software development lifecycle, employing Jenkins as the primary automation server and integrated automated test suites into the Jenkins continuous integration (CI) pipeline.

Mysa

Software Developer

Jan 2019 - Jul 2023

Mysa is the first ever high-voltage thermostat that is truly smart. It is fully featured for the conscientious consumer: smart learning features which amount to approximately 15% savings on energy bills, remote access to control their home's heating through their smartphone from anywhere in the world, and integration with popular smart home platforms (Amazon Alexa, Google Home, and Apple HomeKit)

- Designing, developing, coding, testing and debugging firmware for embedded devices and systems from requirements to production and commercial deployment.
- Working with the hardware team to specify and develop new products from prototype through to production.
- Working with the software team to develop and document API and interface specifications for embedded devices.
- Working with the mobile team to design and developing applications for iOS and Android platforms using the React framework.
- Developing reusable components, implementing state management, and leveraging third-party libraries and APIs in designing responsive and adaptive user interfaces.
- Collaborating with cross-functional teams, including product managers, designers, and engineers, and leveraging embedded system experience to deliver high-quality mobile applications.
- Integrating and validating new product designs.

Nokia Inc.

IP/TAC 2LS Support Engineer (Co-Op)

Jul 2016 - Dec 2016

Remote Technical Support for 5620 SAM Network Services Platform and associated network elements. Debugging complex product installations on CentOS/Solaris/RHEL systems, resolving complicated network problems using Open Stack, Cloud Stack and VMWare. Scripting at a Unix/Linux level in bash and Python. Interfacing, developing and maintaining strong relationships with regional TEC (Technical Expertise Centers), Solution Teams and Product Business Units.

Nalcor Energy

Software Developer (Co-Op)

Dec 2015 - May 2016

Nalcor Energy is a provincial energy corporation which is headquartered in St. John's, Newfoundland and Labrador. A provincial Crown corporation under the Government of Newfoundland and Labrador, Nalcor Energy was created in 2007 to manage the province's energy resources.

- Developed GIS application development for analyzing prices and visualizing correlations within the New York energy market.
- Initiated migration of heat map functionality to web application using R and Google Maps.
- Scripted the mapping of all major North American energy markets.