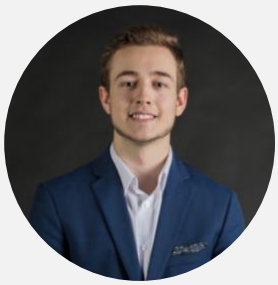

Mitchell Stride

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(709) 541-3744

Technical

⇒ PCB Design
Schematics & Layout
⇒ Embedded Systems
⇒ Microcontrollers
⇒ Adv. Radio License
⇒ Prototyping and Design
⇒ SMD Soldering
⇒ 3D-Printing and Modeling
⇒ Hardware Verification

Software

⇒ Altium
⇒ KiCAD
⇒ EAGLE
⇒ C & C++
⇒ AVR Assembler
⇒ Mbed Framework
⇒ Solidworks
⇒ PSPICE Simulation
⇒ ABB 800xA
⇒ Git, SVN

Personal

⇒ Electronics Hobbyist
⇒ Camper
⇒ HAM Operator
⇒ RC Vehicles

Embedded Systems | Electrical Engineering Student

Memorial University of Newfoundland, St. John's, NL

Electrical Engineering, Third Year, Expected Graduation April 2020

Bachelor of Engineering Co-op Program

Work Experience

Embedded Systems Engineer - Co-op | April 2018 – Aug 2018

Kraken Robotics Systems Inc., St. John's, NL

⇒ Designed and revised PCBs using KiCAD. Developed hardware from concept to completion for use in rugged environments.

⇒ Evaluated solutions in the lab using rapid prototyping techniques with the STM32 Nucleo development boards.

Cross Asset Engineering Assistant | Sept 2017 – Dec 2017

ExxonMobil, St. John's, NL

⇒ Designed analog and digital logic to optimize the Electrical Power Management System for the offshore oil platform Hibernia.

⇒ Used the ABB 800xA software suite to create logic and graphics.

Hardware Verification Engineer Co-op | Jan 2017 – Apr 2017

Nokia, Ottawa, ON

⇒ Analyzed schematics of complex PCBs and created verification test plans.

⇒ Soldered under a microscope and probed signals in a professional lab.

Website Developer

Blue Ridge, Lewisporte, NL | Sept 2014 – June 2015

⇒ Assisted in the launch of an online shopping solution with the aid of Shopify.

⇒ Developed the website www.theoutdoorsupplystore.com

Extracurricular

Paradigm Hyperloop

Electronics Team

⇒ Assisting to develop electrical architecture for competition 4.

⇒ Designed a daughter board for the pod's BeagleBone Black.

⇒ Prototyping data acquisition tests for the propulsion system.

IEEE

Student Branch Chair

⇒ Launched Stay Late and Make (SLAM) through IEEE for students to collaborate on projects after school.

⇒ Organized technical lectures given by professors.

⇒ Gave workshops on PCB Design

Memorial Baja SAE

Electrical Lead

⇒ Designed a new gauge cluster, including a buck power supply, ATMEGA2560, data acquisition, and a driver interface.

⇒ Designed a LoRa wireless data PCB and created an FPV video system

Projects

⇒ IOT Smart Home (ongoing)
⇒ Nixie Tube Clock (ESP8266)
⇒ FPV Racing Quadcopter
⇒ PCB Reflow Oven (ATMEGA)
⇒ Solar Tracking PCB and Model
⇒ Automatic Fish Feeder (STM32)
⇒ Emergency Light System (PIC)
⇒ 3D Printer Upgrades