

# FRANCIS WALSH

## Electrical Engineering Co-op Student

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## EXPERIENCE

### Hardware Support Engineering Co-op

#### Nokia Networks

Jan. 2018 – April 2018   Ottawa, Ontario

- Redesigned legacy timing schematics saving Nokia an estimated \$73,597.00
- Reworked over 250 boards using a variety of techniques
- Debugged R&D boards using a variety of tools
- Created scripts in Perl and Python for automating tedious lab tasks
- Used various state of the art lab tools to verify signal integrity

### Overland Transmission Completions Student

#### Nalcor Energy

June 2017 – Sept. 2017   Newfoundland

- Inspected over 1100 newly built HVdc transmission towers
- Communicated and directed contractor rework
- Created VBA and Python tools for data analysis/future employee use
- Developed/delivered training to personnel in use of completions system

## PROJECTS

### Electrical Design Lead

#### MUN SAE Aerospace Design Club

Nov. 2016 - Present   St. John's, Newfoundland

- Oversee/lead a team of peers in developing software and hardware. Tasks include:
  - Creating custom aircraft telemetry hardware
  - Designing power distribution circuits
  - Programming software to assist with flight stability
- Solicited local businesses for club sponsorship

## HACKATHONS

### Machine Learning Lead

#### SFHacks

March 2018   San Francisco, California

Created an autonomous security robot that used machine learning to profile and identify suspicious people

- Prizes won: SFHacks First Place, IBM's innovation award and DJI's best Hardware Hack

### Computer Vision Lead

#### SteelHacks

Feb 2018   Pittsburgh, Pennsylvania

Created an app for drivers that could detect if they were becoming sleepy

## MOST PROUD OF



#### SFHacks First Place

Created a robot which used Machine Learning to profile criminals



#### Gander Aviation Trophy

Newfoundland's top cadet pilot



#### Memorial Endowment Fund

Received for 90% Highschool graduation average

## TECHNICAL STRENGTHS

Soldering (SMD, 0402)   Signal Integrity

Lab Tools   Telecoms Equipment

Task automation   PCB design

Machine Learning   Data Analysis

## DEVELOPMENT

C++  
Java  
Python  
Perl  
TensorFlow  
VBA



## EDUCATION

B.Eng Electrical/Electronics Engineering

Memorial University of Newfoundland

Sept 2016 - Present

Cumulative GPA: 3.61 (Avg: 80.4)

## INTERESTS

