

# FRANCIS WALSH

## Electrical/Electronics Engineering Student

@ francis.walsh@mun.ca    709-764-7076    Newfoundland, Canada  
http://franciswalsh.ca    in francis-walsh    frankie-eight-days



## EXPERIENCE

### Hardware Support Engineering Co-op

#### Nokia

Jan. 2018 – April 2018

Ottawa, Ontario

- Redesigned legacy timing schematics saving Nokia an estimated \$322,000.00
- Reworked over 250 boards using a variety of techniques
- Debugged R&D boards using a variety of tools
- Brought-up newly manufactured boards
- Created scripts in Perl and Python for automating tedious lab tasks
- Used various state of the art lab tools to verify high speed signal integrity

### Renewable Energy Transmissions Student

#### Nalcor Energy

June 2017 – Sept. 2017

Newfoundland

- Conducted over 1100 safety inspections on newly built HVdc transmission towers
- Created VBA and Python tools for data analysis/future employee use
- Communicated and directed contractor rework
- 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

### CEO/CTO

#### SunQuest Games

Dec. 2014 - Present

- Lead a team of peers to create video games and other applications. Responsibilities include:
  - Construction and continuing development of Java based game engine
  - Directing art and music design
  - Deploying projects on custom HTML based website
- Other projects include data scraping and 'Denial of Service' applications written in Python and C++

## MOST PROUD OF



#### SFHacks First Place

Created a robot in 24 hours which used Machine Learning to profile criminals



#### Gander Aviation Trophy

Newfoundland's top cadet pilot



#### Memorial Endowment Fund

90% Highschool graduation average

## TECHNICAL STRENGTHS

Digital Circuit Design    Signal Verification  
EE Lab Tools    PCB Design    RTOS  
Test Automation    KiCAD    3D Printing  
DxDesigner    Soldering (SMD)    Arduino  
Embedded Systems    Mechatronics

## DEVELOPMENT

C/C++  
Assembly  
Verilog  
Perl  
Python  
TensorFlow



## HACKATHONS

/hake THan/ noun - a 24 hour event where students mentored by industry professionals build whatever tech they can imagine. I've attended:

SFHacks - San Francisco, California

SteelHacks - Pittsburgh, Pennsylvania

StarterHacks - Waterloo, Ontario

UOttaHack - Ottawa, Ontario

## EDUCATION

### B.Eng Electrical Engineering

#### Memorial University of Newfoundland

Sept 2016 - Present

## INTERESTS

Winemaking, Specialty Coffee, Fitness