STEPHAN GRETO-MCGRATH

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Education

McGill University **Dec 2017**
Bachelor of Engineering | Electrical Engineering
Department of Electrical and Computer Engineering

Languages

English *fluent*
French *fluent*
Spanish *novice*

Skills

Languages (*In order of ability*)		**Hardware**	**Software Programs**	
C	Python	PCB CAD	Keil MDK-ARM	Android Studio
Embedded C	HTML/CSS	Soldering:	ModelSim	VI/VIM
Java	Javascript	*Through-Hole*	Altera Quartus II	LabView
C++	G (LabView)	*Surface-Mount*	Spice	Eagle
VHDL	LaTeX	*Rework*	Eclipse	Microsoft Office

Experience

Cube 3D Printing Service **May 2016 - Dec 2016**
Lab Manager

- Expanded service to include 2 new printers
- Oversaw employees and employee/client relations

Priwen Systems **May 2016 - Sep 2016**
Embedded Android Developer (Intern)

- Wrote the software to interface peripherals with a smartwatch (watch crown, buttons)
- Worked extensively through JNI on an embedded ARM platform

Cube 3D Printing Service **Jan 2016 - May 2016**
Lab Technician

- Printed designs for students, professors and design teams
- Acted as a printing consultant for clients and Mech Eng undergrad classes

McGill Robotics **Oct 2014 - Sep 2015**
Motor Controller Specialist

- Designed motor controller PCB
- Sourced components, assembled and tested board

iRepair MTL **Jun 2013 - July 2014**
Electronics Technician

- Tested, diagnosed and repaired consumer electronics

Academic Projects

MIPS Pipeline Processor **2017**

Designed a *MIPS* pipeline processor with n-bit branch prediction and implemented it in *VHDL*

Wireless Microprocessor Mouse **2016**

Programmed the The *ARM* Cortex-M4 based STM32F4 MCU in *embedded C* in order to use the board as a wireless mouse device

Embedded Neural Net **2016**

Designed and implemented a neural network in *labVIEW* on the *National Instruments myRIO* embedded hardware that could be taught to detect its orientation

Research in 3D Bioprinting **2015**

Worked on the development of a DLP SLA 3D-Bioprinter in Kinsella Lab at Mcgill

Personal Projects

Gaskell Labs Handmade Preamplifiers **2015**

Volunteered at GKL Audio building high fidelity analog microphone preamplifiers from scratch

Autonomous Light Seeking Robot **2014**

Used Arduino and photoresistors to create a robot that chases a light source in a game of tag

Other Experience

1-800-Got-Junk? **May 2017 - Present**
Truck Team Member

Self Employed **October 2016 - Present**
Construction Laborer

Coral Beach Farms **June 2015 - August 2015**
Piece Worker

Hurley's Irish Pub **May 2015 - June 2015**
Bus Boy and Construction Laborer

Hobbies

Muay Thai **October 2009 - Present**

Amateur competitor, travelled to Thailand for training in 2011 (5 months)

Photography **??? - Present**