Camilo Tejeiro

Toronto, Ontario, Canada
linkedin.com/in/camilotejeiro
camilo.tejeiro@mail.utoronto.ca
camilotejeiro.github.io

Skills

Areas of Knowledge
Analog/RF Integrated Circuit Design, Discrete Circuits, PCB Design, Embedded Systems, Firmware/Software Development.

Technical Skills
Cadence Virtuoso/Spectre, SPICE, Altium Designer, MATLAB, Python, C, KiCad, Eagle, LaTeX, Linux, Bash, QUCS, Java, C++, Verilog.

Personal Skills
English bilingual proficiency, Spanish bilingual proficiency, Team-oriented, Self-driven, Diligent, Perseverant.

Education

University of Toronto — Toronto, ON, Canada
Cumulative GPA — 3.94 on a 4.0 scale
M.A.Sc. Electrical and Computer Engineering — April 2019

University of Washington — Seattle, WA, USA
Cumulative GPA — 3.54 on a 4.0 scale
Bachelor of Science in Electrical Engineering — June 2013

North Seattle Community College — Seattle, WA, USA
Cumulative GPA — 3.81 on a 4.0 scale
Associate of Science — June 2010

Engineering Experience

Intelligent Sensory Microsystems Laboratory — Toronto, ON, Canada
Graduate Research Student — January 2018 - Present
Development of RF ICs and flexible electrode arrays for biomedical implantable circuits and systems.

- RO-based Edge-combining TX ICs for Low-power Microimplants — *RF IC Design, Virtuoso/Spectre, MATLAB*
- Rigid-flex Micro-electrodes and Sensing Interfaces for Implantable Applications — *PCB, Altium Designer, 40 designs*

Ashima Devices — Pasadena, CA, USA
Hardware/Firmware Design Engineer — June 2014 - May 2015
Development of the sensor, communication and flight control hardware for the Hexpuck unmanned aerial device.

- Li-Ion Active Battery Balancer Hardware Design — *Analog Circuits, PCB, Eagle CAD, 4 layers, 176 components*
- Li-Ion Active Battery Balancer Embedded System — *Firmware Development, Python, ARM-M0, Linux, GCC, GDB*
- Motor ESC Hardware Design — *Embedded Systems, Circuit Design, Eagle CAD*
- Motor FET Driver Power Board — *Circuit Design, PCB Design, Eagle CAD, 43 components*
- Battery Simulator Hardware Design — *Analog Circuits, PCB Design, Eagle CAD, 16 components*
- Power Limiter Hardware Design — *Analog Circuits, PCB Design, QUCS, Eagle CAD, 22 components*
- RGB Pixels Array Board — *Circuit Design, PCB Design, Eagle CAD, 58 components*
- Gyroscope Breakout Board — *Circuit Design, PCB Design, Eagle CAD, 8 components*
- GPS Magnetometer Board — *Circuit Design, PCB Design, Eagle CAD, 30 components*
- Flight Controller Daughter Board — *Circuit Design, PCB Design, Eagle CAD, 48 components*
- Flight Controller Interface Board — *Circuit Design, PCB Design, Eagle CAD, 10 components*

RTneuro Inc. — Seattle, WA, USA
Lead Design Engineer — July 2013 - May 2014
Design of the bio-medical sensors, the wireless embedded system and the communication software for the Rainbow wearable health device.

Bluetooth LE Router Application — *Software Development, Java, Android API*

Wearable Wireless Health Device Hardware Design — *Embedded Systems, PCB, Altium, 4 layers, 92 components*

Wearable Wireless Health Device Firmware Design — *Embedded Systems, Firmware Development, C, ARM, KEIL*

Low Power Reflectance Pulse Oximeter — *Analog Circuits, PCB Design, Altium Designer, Multisim*

Electromyography Sensor — *Analog Circuits, PCB Design, Altium Designer, Multisim*

Galvanic Skin Response Sensor — *Analog Circuits, PCB Design, Altium Designer, Multisim*

The Daniel Lab — Seattle, WA, USA

Undergraduate Research Assistant — January 2013 - March 2013

Development of a software application to aggregate gesture and myography data for control purposes.

EMG Hand Tracking and Gesture Recognition — *Software Development, C++, Visual Studio*

Spacelabs Healthcare — Issaquah, WA, USA

Internship — January 2012 - June 2012

Design of multiple software applications for monitoring patient health in a mobile environment and displaying health data in a remote graphical interface.

WiMM Watch Wireless Health Monitoring System — *Software Development, Java, Android API, C#*

Neurobotics Laboratory — Seattle, WA, USA

Undergraduate Research Assistant — June 2011 - August 2011

Development of a manipulation experiment for researching feedback delivery techniques and design of a remote feedback device to help amputees.

Wireless Vibrotactile Feedback Device — *Embedded Systems, Firmware Development, C, MSP430*

Publications

Tejeiro, C.; Stepp, C.E.; Malhotra, M.; Rombokas, E.; Matsuoka, Y.; , "Comparison of remote pressure and vibrotactile feedback for prosthetic hand control," *Biomedical Robotics and Biomechatronics (BioRob), 2012 4th IEEE RAS & EMBS International Conference on*, vol., no., pp.521-525, 24-27 June 2012.

Awards and Honors

University of Washington Quarter Dean's List — March, 2013

Award received for maintaining a full time GPA of 3.50 or better during the winter quarter of 2013.

University of Washington Kaiser Aluminum Scholarship — June, 2012

Scholarship awarded for good academic record and leadership potential.

University of Washington Annual Dean's List — June, 2011

Award received for maintaining a full time GPA of 3.50 or better during the 2010-2011 academic year.

North Seattle Community College Merit Scholarship — June, 2010

Scholarship awarded for academic excellence.

Leadership Experience

Osohm Inc. — Torrance, CA, USA

Founder and Lead Design Engineer — June 2015 - June 2016

Development of tools and applications to facilitate the widespread adoption of open technologies in the consumer market.

Volunteer Experience

IEEE ISSCC Conference Student Volunteer (2018, 2019, 2020) — Feb. 2018, Feb. 2019, Feb. 2020

University of Toronto

Student volunteer for the International Solid State Circuits Conference.

STARS Tutoring Program — April 2015 - June 2015

Lake Avenue Community Foundation

Helped low-income middle and high school students complete their homework and succeed in classes.

IEEE IMS/RFIC Symposium Student Volunteer — June 2013

University of Washington

Student volunteer for the 2013 International Microwave and Radio Frequency Integrated Circuits Symposiums.