

# Camilo Tejeiro

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## Skills

### Areas of Knowledge

Circuit Design, PCB Design, Analog Circuits, Embedded Systems, Firmware Development, Software Development.

### Technical Skills

KiCad EDA, Eagle PCB, Altium Designer, SPICE, C, Python, QUCS, L<sup>A</sup>T<sub>E</sub>X, Java, Bash, Linux, C++, Verilog.

### Personal Skills

English bilingual proficiency, Spanish bilingual proficiency, Self-driven, Strong work ethic, Perseverant, Team-oriented.

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## Education

### University of Washington

Cumulative GPA 3.54 on a 4.0 scale  
Bachelor of Science in Electrical Engineering June 2013

### North Seattle Community College

Cumulative GPA 3.81 on a 4.0 scale  
Associate of Science June 2010

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## Engineering Experience

### Ashima Devices

*Hardware/Firmware Design Engineer*

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

### RTneuro Inc.

*Lead Design Engineer*

Seattle, WA, USA  
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	<i>Software Development, Java, Android API</i>
Wearable Wireless Health Device Hardware Design	<i>Embedded Systems, PCB, Altium, 4 layers, 92 components</i>
Wearable Wireless Health Device Firmware Design	<i>Embedded Systems, Firmware Development, C, ARM, KEIL</i>
Low Power Reflectance Pulse Oximeter	<i>Analog Circuits, PCB Design, Altium Designer, Multisim</i>
Electromyography Sensor	<i>Analog Circuits, PCB Design, Altium Designer, Multisim</i>
Galvanic Skin Response Sensor	<i>Analog Circuits, PCB Design, Altium Designer, Multisim</i>

### The Daniel Lab

*Undergraduate Research Assistant*

Seattle, WA, USA  
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*

## University of Washington

Seattle, WA, USA

*Design Curriculum*

September 2011 - March 2013

Design of analog circuits and embedded systems for the development of practical engineering applications.

Single Cycle and Pipelined CPU

*Embedded Systems, Verilog, FPGA, Altera Quartus*

PVT Invariant Voltage Controlled Low Pass Filter

*Analog Circuits, Multisim*

Graphic Equalizer Design

*Analog Circuits, Multisim*

Wireless EMG Actuated Prosthesis for Upper Limb Amputees

*Analog Circuits, Firmware, C, MSP430, Multisim*

## 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.

Comparison of Remote Feedback Modalities for Prosthetic Hand Control

*Embedded Systems*

Wireless Vibrotactile Feedback Device

*Embedded Systems, Firmware Development, C, MSP430*

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## 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 Biomechanics (BioRob), 2012 4th IEEE RAS & EMBS International Conference on*, vol., no., pp.521-525, 24-27 June 2012.

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## 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.

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## 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.

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## Volunteer Experience

**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.

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## Memberships

**Tau Beta Pi Engineering Honor Society**

April 2011 - June 2013

**Society of Hispanic Professional Engineers**

September 2009 - June 2013