**Borja Rojo**

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**Education**

**University of Rochester** **Rochester, NY**

*Candidate for Degree Bachelor of Science in Electrical and Computer Engineering, Triple Minor in Computer Science, Math and Music, May 2017*

* GPA: 3.1, Dean’s List: 124/128 ECE, 20/24 Computer Science, 20/24 Math, 28/28 Music

**Projects**

**Electrical and Computer Engineering**

* Designed and implemented autonomous navigation software for the Kobuki Turtlebot
* Designed and built a personal desktop computer
* Designed and built a solid state audio amplifier
* Designed and built an FM radio transmitter using an Arduino

**Computer Science**

* Designed and implemented routing software that maps the shortest path from one intersection to another across New York
* Implemented an algorithm that wins the game Mastermind
* Designed and implemented an object-oriented basic trading simulator
* Designed and implemented *People of the Internet* biographical webpage

**Work Experience**

LSA Autonomy Westminster, Maryland

*Software and Electronics Engineer – Intern January 2017*

Edited C++ and HTML as instructed

Collected and evaluated data on LEDDAR sensor to determine characteristics

University of Rochester - ECE Rochester, New York

*Mobile App Design – BRiDGE Project - Intern May 2016 – July 2016*

Created an app intended for audio sample collection (used for emotional analysis in BRiDGE)

Connect Prep - http://www.connectprep.com/ Darien, Connecticut

*Web App Design – TestPrep - Intern Dec 2015 - Current*

* Designed and implemented a web-based testing preparation system;

Designed an interface for users to access test questions based on their preference and performance

Implemented dynamic functionality using Meteor, MongoDB, and Javascript

University of Rochester Rochester, New York

*Research Assistant – Acoustic Imaging and Resolution Theory May 2015 – Aug 2015*

* Designed an automated a system for large data collection
* Involved in design and error checking of the experiments
* Built and managed hardware to realize practical implementations

Sony Music Entertainment New York, New York

*Summer - Intern May 2013 – Jun 2013*

* Organized and updated artist sales, radio play, awards, statistics; evaluated potential material for production; worked in groups to design advertisements for Spotify

**MUsic Production**

University of Rochester Rochester, New York

*River Campus – Local Band Interviews April 2015*

* Set up, sound check, recording, and mixing of the band’s music and interviews

*Eastman School of Music – Mixed and Mastered a full album May 2014*

* Worked with a composition student to create a collection of eclectic avant garde pieces
* Rock, Folk, Bluegrass, Voice & Harp, and many small group styles.

**Leadership Experience**

* IEEE Executive Board: President *2016*; Project Manager *2015*
* Alpha Epsilon Pi: Executive Board: Secretary *2016*; Minor Board: Fundraising Chair *2016*;

Scholarship Chair *2014*

* President of the Electronic Music Club *2013*
* Captain of Varsity Crew *2013*

**Skills**

* Computer Skills: Unix, Word, PowerPoint, Excel, Logic Pro, Pro Tools
* Programming Skills: Java, C++, Python, C, MatLab, ROS, HTML, CSS, JavaScript, Android, Assembly
* Engineering Skills: Arduino, Circuit Prototyping, Data Sheet Analysis, Metering Equipment, Computer Assembly
* Music Production Skills: Recording, Mixing, Mastering, Sound Design, Composition
* Languages: English, Spanish (fluent)

**Activites**

* College: Active participant in IEEE, AEPi, Music Production, Live recording, Intramural sports
* High School: Wind Ensemble, Jazz Lab, Varsity Crew, Varsity Rugby