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

- 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, 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