

Robert A. Zuazua

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Education

Bachelor of Science in Electrical and Computer Engineering, May 2017

The University of Texas at Austin

Overall GPA: 3.85/4.00

Study Abroad, Universitat Pompeu Fabra, Barcelona, Spain, Spring 2016

Related Courses: Virtual Communication Environment, Sensors and Data Acquisition

Experience

05/2016 – 08/2016

Electrical & Computer Engineering Intern, ExxonMobil

- Re-programmed entire main PLC (programmable logic controller) at a pipeline control station
- Completed \$160k PLC upgrade project for \$55k using new strategy
- Implemented and standardized strategy for PLC upgrades at specific control sites

05/2015 – 08/2015

Electrical & Computer Engineering Intern, Valero

- Re-programmed settings & set points on variable frequency drives & motor protection relays
- Re-designed motor control circuits to include new instrumentation
- Worked with operators to diagnose problems & perform maintenance on electrical devices

08/2014 – 12/2014

Tutor, UT Cockrell School of Engineering

- Instructed students in binary code, assembly language, and C programming
- Explained data types, digital logic structure, I/O devices, memory, subroutines & the stack

Projects

01/2016 – 05/2016

Visual Vocab, Web Application

- Deployed web app with a 3D scene, 3D clickable objects & a moveable camera
- Developed an environment where multiple users explore scenery & learn languages
- Utilized Three.js, Google language API, Digital Ocean, JavaScript & MongoDB

08/2015 – 12/2016

Fuse, Web Application

- Collaborated in creating a location based chat-application
- Integrated Facebook, Twitter, and Google login data for account access
- Worked with Node, Express, JavaScript, Passport Authentication & MongoDB

02/2015 – 03/2015

NightVision, Google Chrome Extension

- Collaborated to create an open source & customizable browser extension
- Inverts colors to make the screen more suitable for viewing in low light conditions
- Over 3,200 downloads & 4 star rating

Affiliations

Co-Founder and Lead Drone Engineer, Texas Drones (Spring 2015-Present)

Hackathon Participant, CodeRed, /hack, EMHack (Spring 2015-Present)

Community Service Committee, Alpha Lambda Delta/Phi Eta Sigma (Spring 2014)

Member, Society of Hispanic Engineers (Fall 2014- Fall 2015)

Member, Institute of Electrical and Electronics Engineers (Fall 2013-Fall 2014)

Member, Young Life (Fall 2013- Present)

Skills

Proficient in Java, JavaScript, logic programming, CSS, HTML, & Python

Honors

Cockrell School of Engineering College Scholar, 2015 & 2016

University Honors, Fall 2013, Spring 2014, Fall 2014, Spring 2015, Fall 2015

National Society of Collegiate Scholars, Fall 2014, Spring 2015 & Fall 2015

Pre-Freshman Minority Engineering Program, University of Texas, San Antonio (2007-12)