

Ismael 'Izzy' Gomez

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Education

Massachusetts Institute of Technology

Cambridge, MA

Candidate for S.B. in Computer Science and Electrical Engineering

Expected 2017

Select Coursework: Algorithms and Data Structures*, Android Development*, Software Construction in Java, Computation Structures*, Linear Algebra, Differential Equations, Intro to Python, Intro to Javascript*

Experience

Changing Places Group at the MIT Media Lab

Cambridge, MA

Undergraduate Researcher

Spring 2015 - Present

- Develop and program the interface between an algorithmic analysis package written in MATLAB to a prototype hardware system of modular, pressure-sensitive sheets run using an Arduino and ATmega8 boards
- Model k-means clustering algorithm to identify individual footsteps on the pressure-sensitive sheets; analyze footsteps and corresponding centroids to predict walking behavior

Pololu Corporation

Las Vegas, NV

Electrical and Software Engineer

Summer 2014

- Designed and tested printed circuit board for *A4990 Dual Motor Driver Shield for Arduino* using Altium PCB Designer, Git, and various hardware testing tools
- Developed corresponding *Arduino software library*, simplifying use of Shield with brushed DC motors
- Final product solved issue of providing inexpensive motor driver capabilities to the Arduino platform

Leadership

MIT Department of Athletics

Cambridge, MA

Sports Program Manager

Spring 2015 - Present

- Direct a student-run intramural soccer sports program with over 800 participants per season
- Coordinate and schedule entire season, effectively communicating with captains and referees, and resolve scheduling and interpersonal issues

Theta Delta Chi Fraternity

Cambridge, MA

House Manager

Fall 2014 - Present

- Managed fraternity-wide efforts to maintain, repair, and renovate a five-story property; coordinated and budgeted renovations with local government inspectors and independent contractors

Network Administrator

Fall 2014 - Present

- Redesigned, updated, and maintained fraternity website using Wordpress; utilized Python scripts to update email lists; updated and reorganized local server content

Skills

Languages: Python, Java (Android Studio*), HTML/CSS, Javascript*, Go*

Tools: \LaTeX , Git, Bash, Linux (Kali, Ubuntu), Windows 8, Solidworks, Altium Designer

Interests: WebDev, Personal Analytics, Open Source, Hacking, Startups, Soccer

*in progress