

# Ismael 'Izzy' Gomez

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## Education

### Massachusetts Institute of Technology

Cambridge, MA

*Candidate for Bachelor of Science in Computer Science and Engineering*

*Expected 2017*

**Select Coursework:** Algorithms and Data Structures\*, Android Development\*, Software Construction in Java, 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\*

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

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

\*in progress