

# AKHIL RAJU

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## EDUCATION

### MIT

June 2014

Candidate for B.S. in Computer Science & Electrical Engineering - GPA: 5.0 / 5.0

Member of Tau Beta Pi Engineering Honor Society

Select Coursework: Software Design, Algorithms, AI, Computer Vision, Signal Processing, Image Processing, Robotics, Circuit Design, Feedback Systems

## SKILLS

### Programming

Java, Python, Matlab, C++, HTML, JavaScript, CSS

### Open-source Frameworks/Tools

OpenCV, ROS, Hadoop, Cassandra, Elasticsearch, Android, SVN, Git

## EXPERIENCE

### Palantir

June, 2013 - August 2013

*Forward-deployed Software Intern*

*Palo Alto, CA*

- Created customer-specific "big-data" analysis tools in Java for banks and healthcare companies
- Secured Palantir's large data-store solution with SSL and password authentication
- Optimized the runtime of large map-reduce jobs running on Palantir's flavor of Cassandra

### WhatsApp

June, 2012 - August 2012

*Mobile Software Intern*

*Mountain View, CA*

- Released significant software updates that benefited millions of WhatsApp users
- Enhanced the UI and optimized the performance of the mobile app using Java to better the overall user experience
- Designed the app's registration pages for easier access to WhatsApp worldwide

### MIT Media Lab - Personal Robots Group

September, 2012 - January, 2013

*Undergraduate Researcher*

*Cambridge, MA*

- Built interactive robots that assist children in areas like education and health-care
- Designed new motor circuit boards to upgrade the robots' capabilities
- Learned circuit design and PCB layout using Eagle CAD

### Hewlett-Packard - Arcsight

June, 2011 - August, 2011

*Software Intern*

*Cupertino, CA*

- Streamlined the software testing process at Arcsight Enterprise Security, an HP company
- Developed new features in Java for their internal testing environment and automated portions of the testing
- Presented work to the team and the general HP community at a project fair

## LEADERSHIP ROLES/ACTIVITIES/PROJECTS

### President - Burton-Conner House

January, 2013 - January, 2014

- Advocate for dorm residents to administrators in university-wide student government councils
- Organize events and services for the over 300 students living in Burton-Conner

### Mobile Autonomous Systems Lab

January, 2014

- Designed and programmed an autonomous, ball-collecting robot from scratch as part of a team of 4
- Built the vision-processing and high-level decision-making modules in Java and Python

### Autonomous Block-Stacking Robot

February, 2013 - May, 2013

- Created an autonomous robot to navigate around obstacles while finding, picking up, and stacking blocks
- Used ROS to process vision and sensory information and to control the robot's wheels and arm

### MIT Techfair - Corporate Relations

September, 2010 - January, 2011

- Organized a technology expo at MIT for over 1000 students and 30 companies
- Marketed event to companies, like Apple, Pixar, and Adobe, and several student groups

### MIT Lego Robot Competition

January, 2011

- Built and programmed a robot to find, pick up, and transport small balls
- Implemented the robot's navigation and localization algorithms in C