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 Palantirs 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