

Huan Liu

6 Craigie Circle, Apt 44, Cambridge, MA 02138
(857) 753 9248, liuhuan@mit.edu

- OBJECTIVE** A position in a robotics research.
- EDUCATION** *Candidate for Master of Engineering in Computer Science*
Massachusetts Institute of Technology, Cambridge, MA, expected June 2011
Bachelor of Science in Computer Science
Massachusetts Institute of Technology, Cambridge, MA, June 2010
- SKILLS** **Languages** Java, Python, Action Script 3, C++, Visual Basic, PHP, Linux shell script.
Operating Systems Linux (Ubuntu, Fedora, Athena), Windows.
Robots PR2, Barrett WAM/Hand, Lynxmotion 4DOF Arm, iCreate, ORCboard, LEGO, Fischertechnik.
Robotics Platforms OpenRAVE, ROS, CARMEN.
Micro Controllers PIC, PLC.
- SELECTED EXPERIENCE** *Research Assistant* Summer 2008 to Present
Learning Intelligent Systems Group, CSAIL, MIT
- Working on robust grasp synthesis and selection for a PR2 robot.
 - Assisted a grasping research involving a Barrett WAM robot. Worked on robot simulation, socket communication, grasp contact point calculation, and motion planning.
 - Managing PR2 and Barrett WAM.
- Partner, Project Manager, Platform Developer, Class Instructor* Summer 2005 to Present
Present
Built-It-Yourself, Cambridge, MA
- Leading a development team for constructing an online robotics education platform.
 - Programmed a child-friendly LEGO robotics interface in Microsoft Excel.
 - Teaching Scratch programming, web design, robotics in online and offline workshops.
- Teaching Assistant, Grader* Fall 2007 to Present
Mobile Manipulation Research Project Seminar (2010), Differential Equations (2008), Physics I Mechanics (2007), Multi-variable Calculus (2007).
- Tutoring Chair* Spring 2010 to Present
Running the department tutoring program that has helped more than 100 undergraduates getting over 400 hours of one-on-one tutoring help since Spring 2010.
- SELECTED ACTIVITIES** Organized and participated in the “PEER CHINA” volunteer teaching program from summer 2007 to summer 2008. A program mainly consists of Chinese college students who study in China and abroad to teach for high school students in undeveloped mid-western mountainous areas.
- HONORS** Member of HKN National Honor Society for Computer Science and Electrical Engineering (10)
Final project *Best Feature Award*, Elements of Software Construction (08)
Technical Judge, First LEGO League, Rhode Island (07,08)
Awarded *Rickoid of the Year*, Research Science Institute 2005, MIT
- PUBLICATIONS** *Class-Specific Grasping of 3D Objects from a Single 2D Image*, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2010.
- Building a Distributed Robot Garden*, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2009. Finalist for NTF Best Paper Award.