Katherine Hobbs

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EDUCATION

Massachusetts Institute of Technology (MIT) GPA: 4.7/5.0 — Cambridge, MA
Expected 2015 MS in Computer Science & Electrical Engineering — June 2015
Expected 2014 BS in Computer Science & Electrical Engineering and Aerospace Engineering — June 2014
Relevant Courses: User Interface Design & Implementation; Software Construction; Algorithms; Digital & Computational Photography; Artificial Intelligence; Automatic Control; Electromagnetics; Signals & Systems

Raleigh Charter High School (RCHS) — Raleigh, NC
Summa Cum Laude; GPA: 3.92/4.0; SAT: 2330 (Math: 800, Verbal: 800, Writing: 730) — June 2010

WORK EXPERIENCE

User Interface Design Group (CSAIL at MIT) *Undergraduate Researcher* — Cambridge, MA
- Improving admin user interface for collaborative code reviewing website — January 2014 – Present
- Designing Gold Standard Question implementation for online education

APX Labs *Intern* — Cambridge, MA
- Developed user interface designs for smart glass applications — Summer 2013
- Gathered user persona data and developed application solutions as they pertain to smart glasses
- Worked on porting the software for smart glasses from Android to Windows

Robust Robotics Group (CSAIL at MIT) *Undergraduate Researcher* — Cambridge, MA
- Assisted in quadrotor experiments to develop estimation & planning algorithms to allow micro-UAVs to use environmental sensors to estimate position, build maps, & fly safely in unknown environments without GPS — Summer 2012
- Implemented visual odometry software for quadrotors at Pontificia Univerisdad Católica in Santiago, Chile

Advanced Liquid Logic *Intern* — Morrisville, NC
- Investigated the properties of various materials to determine a more effective electrical connection for a microfluidic cartridge — Summer 2010 & 2011
- Worked with the Quality Assurance Team to collect and analyze data from manufacturing, non-conformance reports, corrective and preventive action, and other quality record

LEADERSHIP EXPERIENCE

MIT Gordon Engineering Leadership Program — September 2012 – May 2013

MIT Students for the Exploration and Development of Space — January 2011 – May 2012
Chapter Representative, Head of Astrophotography Team, & Head of Radio Telescope Team

RCHS Student Government — Raleigh, NC
Student Body & Class of 2014 Treasurer & Class Representative — August 2006 – June 2010
- Organized events for 500+ people, managed Prom fund-raising/disbursement ($8K budget)
- Planned Senior events & ended the year with largest surplus in school history (+$3500)

ACTIVITIES

HKN – MIT Computer Science Honor Society — September 2013 – Present

deskdash – MIT Dormitory Desk Worker User Interface & Webpage Design — February – May 2013
- Performed interviews and prototyping before implementing a web-based system for workers to track packages, items, guests, etc.

what's due? – MIT Task Management Application for iPhone — February – May 2013
- Worked with team to design & build app with wiki to-do list for classes with annotations, stats, and messaging

MIT Instant Messaging Chat Client — February – May 2012
- Implemented multi-user network chat with group chat functionality as part of a team

MIT Mobile Autonomous Systems Laboratory — January 2012
- Worked with team to design, build, & program an autonomous robot for a competition requiring computer vision, maze navigation, & ball collection/launching

SKILLS

Programming: Python; Django; Java; HTML5/CSS/JQuery/JavaScript; MATLAB; SVN (Subversion); Git
Other: Machine Shop Trained (Mill & Lathe); Soldering; Microsoft Excel, Word, & PowerPoint
Languages: Conversational Spanish (7 years of Spanish classes + 6 weeks working in Santiago, Chile)