

KATHERINE J. FANG

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Education	Massachusetts Institute of Technology <i>Candidate for SB in Electrical Engineering Computer Science 5.0 / 5.0 GPA</i> <i>Coursework:</i> Multivariable Calculus, Electricity and Magnetism, Intro to Solid State Chemistry, Exploring Animation, Intro to EECS, Differential Equations, Microeconomics, Toy Product Design	Cambridge, MA <i>Jun 2012</i>
Experience	MIT Media Lab <i>Undergraduate Researcher</i> <ul style="list-style-type: none">Improved Blossom, a multi-person awareness system, correcting major issues from previous versions such as capacitive touch sensors cross triggering and polarity of power sources. Designed using Eagle and soldered circuit boards; implemented I2C and USART protocols on AVR microcontrollers. MIT Edgerton Center <i>Undergraduate Researcher</i> <ul style="list-style-type: none">Assisted in building a remote simulation environment for underwater vehicle at the Edgerton Center with the intention of exciting high school students about technology.Responsible for designing parts in Solidworks, machining parts, and assembling Stewart Platform to simulate 6 degrees of movement and headgear to provide visuals as well as control vehicle. MIT Autonomous Robot Design Competition <i>Team Member</i> <ul style="list-style-type: none">Built autonomous Lego robot, and enhanced it with modified sensors and motors; programmed it in C. Placed 2nd out of 21 teams in double elimination competition. Imran Media, Inc. <i>Intern</i> <ul style="list-style-type: none">Developed content management and blog web applications using Ajax, jQuery, PHP, and MySQL so that users can easily contribute to the website's content by submitting videos and articles for front page display and by posting in blogs.	Cambridge, MA <i>Jun – Aug 2009</i> Cambridge, MA <i>Sept 2008 – May 2009</i> Cambridge, MA <i>Jan 2009</i> Menlo Park, CA <i>Jun – Aug 2008</i>
Leadership / Activities	MIT Exploring Animation <i>Undergraduate</i> <ul style="list-style-type: none">Took an introduction class with MIT Student Art Association. Applied learned concepts in creating two short stop-motion animations in class. Space Cookies, NASA-Girl Scouts FIRST Robotics <i>Co-Captain</i> <ul style="list-style-type: none">Organized two week-long workshops on basic programming and electronics for robotics. Increased team membership by 25% and cultivated understanding and interest in these topics.Demonstrated robots and to ran activities such as simulating using tools in space and tele-operating vehicles with video feed at NASA and Girl Scouts events in order to inspire enthusiasm for technology and to make it more accessible to younger girls and boys.Mentored FIRST Lego League team, encouraging underprivileged elementary school students to pursue a future in engineering. <i>Electronics Lead</i> <ul style="list-style-type: none">Rewired steering wheel to make compatible with existing operator interface, improving robots tele-operated driving capabilities. <i>Member</i> <ul style="list-style-type: none">Built working robot for the FIRST robotics competition; won the Rookie All-Star and the Highest Rookie Seed awards in the 2006 Silicon Valley Regional; won the Judge's Award in the 2006 FIRST Championship event.	Cambridge, MA <i>Jan 2009</i> Moffett Field, CA <i>2007 – 2008</i> <i>2006 – 2008</i> <i>2005 – 2008</i>
Skills	<ul style="list-style-type: none"><i>Computer:</i> JAVA, C/C++, Python, SQL, PHP, HTML, CSS, Javascript, Ajax, Adobe Photoshop, Flash, and Dreamweaver, Microsoft Excel, Word, and Powerpoint, OpenOffice Writer, Vim, MATLAB, Solidworks, Eagle, LaTeX<i>Machining:</i> Mill, Lathe, Drill Press, Chop Saw, Shear, Disk and Belt Sanders<i>Languages:</i> Conversational Chinese and Japanese	
Interests	<ul style="list-style-type: none">Ice skating ■ Wushu ■ Cooking ■ Creative writing ■ Woodworking ■ Dance	