

EDUCATION

Massachusetts Institute of Technology

Cambridge, MA

S.B. in Mechanical Engineering 2010, S.B. in Electrical Engineering and Computer Science 2010

- Cumulative GPA: 4.8/5.0
- Coursework: Mechanics&Materials · Dynamics&Control · Thermal Fluids Engineering · Intro to Robotics · Design&Manufacturing · Electronics&Circuits · Elements of Software Construction · Intro to Algorithms

WORK EXPERIENCE

JamLegend

San Francisco, CA

Software Intern

May - August 2009

- Developed online application using Flash/Flex for generating playable game tracks on JamLegend platform

Kiva Systems

Woburn, MA

Intern in Hardware Division

May - August 2008

- Developed analysis programs in Matlab to parse drive unit and floor logs in order to playback action sequences, optimize movement performance, and debug floor offset errors
- Programmed with Labview for automated control of battery-testing module for charging/discharging cycles

MIT Nuclear Reactor Laboratory

Cambridge, MA

Programmer under Professor Gordon Khose, Yakov Ostrovsky

May 2007 - May 2008

- Developed and rebuilt education nuclear physics experiment for use in Junior Physics and Nuclear Radiation Measurement courses at MIT
- Programmed with Labview for motion control with limit switch feedback, measurements with multichannel scanners and pulse counters

WikiNotes.vze.com*Founder*

Sept 2002 - present

- Collected, organized, rewrote course lecture notes into over 1000 web pages and sample quizzes
- Currently redeveloping dynamic site to increase user interaction

MIT Media Lab - Robotic Life Group

Cambridge, MA

Undergraduate Researcher under Professor Cynthia Breazeal, Guy Hoffman

Sept 2006 - Mar 2007

- Engineered iris portion of robotic lamp project (web.media.mit.edu/~guy/aur) as part of a study on human-robot interactions
- Prototyped parts for component that controls the focus, color, and beam size of lamp

RELEVANT SKILLS

- **Programming:** Python · LabVIEW · Java · XHTML/CSS/PHP/MySQL · Matlab code · \LaTeX
- **Currently Learning:** C/C++ · GWT · Javascript · Actionscript
- **Software:** Inkscape · Dreamweaver · Flex Builder · Flash · Fireworks · Solidworks · MasterCAM · Omax · Matlab · Photoshop · Qavimator · Audacity · MS Office · Eclipse
- **Machine Shop Tools:** injection molder · lathe · mill · laser cutter · water jet · band saw · drill press

EXTRACURRICULAR

Phi Kappa Sigma Fraternity

Sept 2006 - present

- **Rush Chair** - organized recruitment events during spring/fall of 2008 and 2009, managing \$17k+ budget

2010 Ring Committee

June 2007 - May 2008

- Assisted in design of 2010 MIT class ring and coordination of ring premiere and delivery events

Discover Mechanical Engineering (co-coordinator)

May 2008 - August 2008

- Co-coordinator for week-long freshmen pre-orientation program that introduced 32 incoming freshmen to mechanical engineering through construction of soccerbots
- Managed \$20k+ budget in 2008, participant/volunteer since 2006