

Education

- Massachusetts Institute of Technology** Cambridge, MA
M.S., Media Arts and Sciences (GPA: 4.8/5.0) Sept. 2006 - June 2008
 – Relevant courses: User Interface Design and Implementation (6.831), Tangible Interfaces(MAS.834), Sensor Technologies (MAS.836), Digital Fabrication (MAS.960)
- Massachusetts Institute of Technology** Cambridge, MA
S.B. Computer Science and Electrical Engineering (GPA: 4.5/5.0) Sept. 2002 - June 2006
S.B. Mathematics (Minor: Comparative Media Studies)
 – Relevant courses: Microcomputer Project Laboratory (6.115), Structure and Int. of Computer Programs(6.001), Algorithms(6.046), Lab in Software Engineering (6.170), Linear Algebra (18.06), Computation Structures (6.004), Computer Systems Engineering (6.033), Cryptography (6.875), Computer Graphics (6.837), Signals and Systems (6.003), Advanced Complexity Theory (6.841)

Work Experience

- MIT Media Lab** Cambridge, MA
Graduate Researcher Aug 2006 - Present
 – Implemented Open I/O, a web-based system for programming networked hardware devices named Pinkies(Atmega32 header boards). Hardware can be accessed remotely through the web or through an XML-RPC JAVA library. <http://openio.media.mit.edu/>
- IBM** Cambridge, MA
Co-op Pre-Professional Programmer June 2004 - Aug. 2004
 – Modified the biology imaging software ImageJ, written in JAVA so that it could run under the ECLIPSE workbench and using SWT Graphics Libraries.
 – Helped file two patents: "A Flexible History Manager" and "Scripts from an Action History."
- MIT Media Lab** Cambridge, MA
Undergraduate Researcher Jan. 2003 - June. 2006
 – Designed the hardware and software for a multi-mouse drawing Program. Mice could connect remotely to a central server through ethernet, and users could draw communally on one canvas by polling the central server for data. Work was presented at AIGA Conference in 2005 and was written in my Undergraduate Thesis
 – Designed a Bezier drawing application for OpenStudio in Java. Also created bezier Splines from freehand drawings using a Catmull-Rom interpolation algorithm.
 – Designed a Web-Based Photo Editor for Treehouse Studio in Java. Could apply filters to selections and could playback drawing history.

Skills**Computer Languages:** C/C++, L^AT_EX, Java, JavaScript/HTML/CSS, Ruby on Rails, MIT Scheme, Intel Assembly**Applications:** Mathematica, MatLab, SolidWorks, L^AT_EX, OpenOffice, MS Office XP, PCB layout, Photoshop, Illustrator, InDesign, Flash, Final Cut Pro, Eclipse IDE, Mac OS X, Windows XP, Athena Linux**Fab/Lab Skills:** Lasercutting, Water Jet, Soldering, Welding, 3D Printing, Digital Scopes, Function Generators**Foreign Languages:** Spanish (Fluent), Portuguese (Conversational), Japanese (Beginner)