

- Objectives:** To develop technologies that enhance the generation-defining human-computer symbiosis.
To expand our understanding of the human mind and multiple intelligences.
To learn as much as possible through diverse, challenging, and stimulating experiences.
- Education:** **Massachusetts Institute of Technology** Cambridge, MA
Graduate GPA: 4.9/5.0 September 2009
Master of Engineering Degree in Electrical Engineering and Computer Science
- Massachusetts Institute of Technology** Cambridge, MA
Undergrad GPA: 4.2/5.0 June 2006
Bachelor of Science in Electrical Engineering and Computer Science. Minor in Biomedical Engineering
- Employment:** **FDO Partners LLC** Cambridge, MA
Research Associate October 2009 – December 2010
- Designed and implemented reporting framework to organize and display data about worldwide equities trading
 - Collaborated on a large software engineering project for automated multi-book low-frequency equities trading
- Microsoft Research** Cambridge, UK
Research Intern July 2009 – October 2009
- Developed optical system for 6 degree of freedom tracking of an object on and above a display surface
 - Designed and fabricated multiple prototypes of next-generation optical pen user interface
 - Programmed DSP-enhanced “Smart Camera” for real-time tracking and decoding of datamatrix codes
 - Conducted significant background research on the history and impact of user interfaces for computing
- Talking Lights LLC** Boston, MA
Senior Design Engineer April 2007 – January 2009
- Built, programmed, and debugged location-aware mesh networked devices
 - Designed and implemented user interfaces targeted at health care workers
 - Coordinated real-world studies of our systems for both minding and guidance applications
- MIT Computer Science and Artificial Intelligence Laboratory** Cambridge, MA
Teaching Assistant for 6.004: Computation Structures August 2006 – January 2007
- Wrote lesson plans and instructed two groups of ~15 students in two (50min) sections a week
 - Course Topics can be viewed at: <http://6004.csail.mit.edu/currentsemester/description.htm>
- Advanced Telecommunications Research Institute** Kyoto, Japan
Intern at the Intelligent Robotics and Communications Labs May 2005 – August 2005
- Programmed an embedded ARM-linux device in C to coordinate multiple Bluetooth accelerometers.
 - Created protocols for time-synchronization, data collection, and preprocessing for hospital applications.
- MIT Microsystems Technology Laboratories** Cambridge, MA
Systems Administrator June 2003 – August 2003
- Administered approximately 300 Unix, Linux, Windows, and Macintosh machines
 - Revised and enhanced systems administration programs/scripts/documentation to expedite repair & installation
- Self-Employed** E.H.T., NJ and Boston, MA
Independent Computer Consultant December 1999 – Present
- Pinpointed clients' needs and developed software for use in medical transcription and clinical research
 - Clients have included: New Institutional Service Company, Atlantic Gastroenterology, Atlantic Prevention Resources, Massachusetts General Hospital Department of Neurological Research
- Computer Skills:** Python, Java, C/C++, Scheme, GTK, jQuery, LAMP, .NET, AS/Flex, R, MATLAB, Adobe CS/Photoshop
- Other Skills/Interests:** Microcontrollers, Japanese Language, Lighting Design/Control, Optics, Deus Ex Machina, Stage Acting
- Leadership Positions:** MIT International Science and Technology Initiatives: MIT-Japan Ambassador
Tau Epsilon Phi, Xi Chapter: Treasurer, Chancellor
- Awards/Certification:** IT Certification from Rutgers, Masonic Grant, Avoda Award, Harry Gessner Memorial Award for EECS