PATRICK MENARD

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EDUCATION	**Massachusetts Institute of Technology** **Cambridge, MA**

Masters of Engineering in Computer Science and Electrical Engineering, September 2004.
S.B. in Computer Science and Engineering, June 2003.

Relevant Topics: Computer Graphics, Game Design, Geometric Computation, Computational Media Design, Parallel Computing, Natural Language Processing, Artificial Intelligence, Algorithms, Japanese

Competitor, Autonomous Robot Design *(Jan 2002)*   **Cambridge, MA**
Team Leader: Directed and led the 4-week design, construction, and programming of an autonomous robot. Managed production, supply, and budget constraints. These efforts resulted in a finals finish.

WORK EXPERIENCE

Embedded Software Engineer, C.S. Draper Laboratory *(Sept 2004 – present)*   **Cambridge, MA**
Design and implement software to control missile, GPS receiver, and/or aircraft systems. Proof and reduce risk for the proposed *ARES Mars Airplane* autonomous mission. Collaborate with multiple groups and outside companies to expedite progress and resolve technical issues. Assist in development and execution of system integration and testing. Write user, developer, and process documentation.

Booth Lead, Namco Networks, E3 Expo *(May 10-12, 2006; May 18-20, 2005)*   **Los Angeles, CA**
Coordinated tournaments for and assisted in managing the promotion of several mobile handset game properties. Resulted in smoother operations and increased visibility among buyers, partners, and media.

Researcher, Physical Language Workshop, MIT Media Lab *(2002 – 2004)*   **Cambridge, MA**
Architected the *Media Sharing Display System* and *The Textscape* for the co-developed *OpenAtelier Global / Treehouse Studio*. Harnessing mobile connectivity, these created a networked infrastructure that facilitated the sharing, gathering, manipulation, and export of data to and from multiple sources and users. Coordinated with colleagues to execute several demos that secured substantial sponsor support.

Intern, Chinon Industries Inc., F/W & H/W Groups *(Jun – Aug, 2002)*   **Suwa City, Japan**
Created test boards and programmed microcontrollers, devices, and serial communications software for the next generation digital camera and dock. These accelerated the development efforts of Chinon clients.

Intern, Wireless IC Design Group, Texas Instruments *(Jun – Aug, 2000 and 2001)*   **Dallas, TX**
Coordinated with international TI branches and architected a software solution that streamlined end-to-end timing wrapper generation by 70%. Designed software that significantly facilitated timing analysis. Wrote user and developer guides (and specifications) to direct usability, maintainability, and extensibility.

Undergraduate Research Opportunities Program *(Feb 2000 – May 2002)*   **Cambridge, MA**
Spearheaded the innovative design of *Splimble*. Assisted laying the groundwork of *Vision for the Blind*.

LEADERSHIP

Nidan Sensei, Bushido, American Jiu Jitsu Club, MIT *(Aug 1999 – present)*   **Cambridge, MA**
Instructor (previously **President** and **Treasurer**): Spearheaded numerous recruiting and demo events. Influenced club direction. Launched innovative classes and programs. These significantly increased signups and retention rates, vitalized interest, and enhanced student confidence and teaching ability.

Staff Volunteer, Chi Alpha, Citywide and MIT *(Sept 2000 – present)*   **Cambridge, MA**
Leader (previously **President** and **Recruitment Chair**): Organized strategy, coordinated numerous events, and lead inroads into untapped demographics increasing member size, identity, and participation.

COMPUTER SKILLS

C, Java, Windows, Unix, Linux, MS Office, Quicken, Eclipse, CVS, Subversion, Bugzilla, Python, PERL, OS X, Assembly, JavaScript, CSS, DHTML, Photoshop / Illustrator, Matlab, Scheme, LISP

ACTIVITIES, INTERESTS

Delta Kappa Epsilon, MIT *(1999-2003):* House Manager, Community Service Chair, Rush Committee
Community: Habitat for Humanity, Casper Homeless Shelter, 1M Boys & Girls Club, MIT City Days
Other: Investing, Entrepreneurship, Music, Dance, Drafting, Art, Writing, Public/Motivational Speaking