

BRYAN NEWBOLD

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Education

- **Massachusetts Institute of Technology**—Cambridge, MA (USA)
Majoring in Physics with a concentration in Philosophy
 - Projected Graduation Date: May, 2009
 - Courses in FPGA Development, Autonomous Robotics, Quantum Mechanics, Experimental Physics, Computational Mechanics.

Experience

- **LIGO Laboratory, MIT Department of Physics**—Cambridge, MA (USA)
Undergraduate Researcher: September-December 2006, February-August 2008
 - Designed, executed, and analyzed experiments to characterize the effect of earthquakes on the observatory and the impact of metal suspension wire hysteresis on the total instrument noise floor.
 - Developed experimental technique and scientific programming skills, including working in an ultra-clean, high-vacuum environment.
- **Moss Landing Marine Labs**—Moss Landing, CA (USA)
Software and Electronics Engineer, Robot Pilot: May-December, 2007
 - Designed and developed electrical and controls systems for an underwater ROV specifically designed for Antarctic under-ice research.
 - 10 week deployment to Antarctica for system testing and research operation; see <http://scini.mlml.calstate.edu> for more information.
- **Bloobird Studios**—Waltham, MA (USA)
Application Designer and Software Engineer: June-August, 2006
 - Developed cutting edge internet applications from the brainstorming stage through production, optimization, documentation, and release.
 - Fourth employee at a small company subsequently purchased by Google Inc.
- **Harvard University Electronic Instruments Lab**—Cambridge, MA (USA)
Lab Assistant: June-August 2001
 - Electronics design and assembly; surface-mount and component soldering; acquisition and stock management.

Skills

- **Operating Systems:** Any UNIX (especially FreeBSD, OpenBSD, and Linux, but also experienced with Solaris, IRIX, AIX, etc), Microsoft Windows, Mac OS 8 through X, BeOS
- **Computer Languages:**
 - Great with C, Java, Python, Verilog, Matlab, Mathematica, XHTML/CSS, and L^AT_EX.
 - Familiar with Perl, MIT-Scheme, Javascript, and many more.