

EVAN BERKOWITZ

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EDUCATION

Massachusetts Institute of Technology

Bachelor of Science in Physics · Minor in Mathematics · Cumulative GPA: 4.8/5.0

Selected Coursework:

Physics - Waves & Vibrations · Relativity · Statistical Physics I · Quantum Physics I · Quantum Physics II · Experimental Physics I · Quantum Physics III · Experimental Physics II · String Theory For Undergraduates · Electromagnetism II · The Early Universe · Quantum Computation · General Relativity

Mathematics - Principles of Applied Mathematics · Information and Entropy · Structure and Interpretation of Computer Programs · Analysis I · Complex Variables with Applications · Theory of Computation

Hunter College High School

Graduated with honors in mathematics and physics.

Cambridge, MA

Graduated June, 2008

New York, NY

June, 2004

EXPERIENCE

MIT Plasma Science and Fusion Center

Undergraduate Researcher

- Modeled and simulated an image-free cavity for a 20:1 elliptical beam, calculating eigenfrequencies.
- Developed and experimented with a photonic band gap cavity solid model.
- Modeled and simulated TESLA accelerator cavities to find field features and dispersion relations of TM modes, including beam-breakup modes.

MIT Applied Mathematics Fluid Laboratory

Undergraduate Researcher

- Developed MATLAB scripts to analyze videos of fluid motion experiments.
- Investigated the relationship between the angle of incline and the nibbling frequency in the tears of wine phenomenon.
- Began an experiment to investigate the natural frequency of a loop of hair in a vertical soap film.

ActionQuest

Open Water Scuba Instructor

- Trained teenagers to scuba dive, while sailing the islands with the students on a fifty-foot sloop in three-week sessions.
- Certified 31 Open Water and Junior Open Water divers.
- Taught respect for the environment, some basic sailing, and some cooking.

Burke Supply Company

Assistant to the Logistics Manager

- Studied warehouse organization and developed a new system of labeling locations for readability and efficiency.
- Integrated computer terminals into a 75,000 square-foot warehouse for item location inquiries.
- Supported CTO in implementing GPS tracking for the 40-truck fleet and its integration with the truck routing system.
- Generated efficiency reports and estimated reasonable production standards.

Alpha Mu Chapter of Phi Kappa Sigma

President

- Worked successfully to overcome division in the brotherhood due to changing house culture.
- Counseled and motivated other officers regarding the chapter's treasury, risk management, new member education, and physical plant maintenance.
- Served as liaison between the active chapter, the Alumni Corporation, MIT Interfraternity Council, MIT administration, and the International Headquarters.

Scholarship Chair

Webmaster and Network Administrator

Alumni Relations Chair

Fall 2005

Fall 2005 - Present

Spring 2004

SKILLS

- *Extensive programming experience:* C++, Java, Scheme, MATLAB, Mathematica, HTML, L^AT_EX.
- *Software Proficiencies:* HFSS, Microsoft Windows, Apple OS X, Microsoft Office, Linux and UNIX environments.
- *PADI Open Water Scuba Instructor* #192443.
- *Emergency First Response Instructor* #192443.
- *Divers Alert Network Oxygen First Aid Instructor* #12193.
- *NYS Certified First Responder* #311385.

INTERESTS

- Rock climbing
- Skiing
- Water sports and boating
- Scuba diving and scuba education