Sam Kendig
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Objective

To find a challenging full-time position utilizing skills in MEMS and analog electronics design.

Education

Massachusetts Institute of Technology   **Class of 2005**

Candidate for June 2006 Master of Engineering/ Bachelor of Science in Electrical Engineering and Computer Science
GPA: 4.6/5.0
 Thesis work: Design of an inductively coupled battery charger for autonomous underwater vehicles

Relevant courses:

- Microelectronic Devices and Circuits
- Signals and Systems
- Feedback
- Mechanics and Materials
- Organic Optoelectronic Devices
- Power Electronics Lab
- Introduction to Analog Electronics Lab
- Microelectronics Processing Technology
- Solid-State Circuits
- Design and Fabrication of MEMS

Hunter College High School   New York, NY   **Class of 2001**

Work Experience

Sea Grant AUV Lab, MIT   Cambridge, MA   **Summer 2005 - Present**

Project: Sonar altimeter for autonomous underwater vehicles (AUVs)
Advisors: Chryssostomos Chryssostomidis and Rob Damus

- Designed an acoustic altimeter to determine vehicle's distance to sea floor
- Simulated signal processing to prevent interference among multiple vehicles

Gas Turbine Lab, MIT   Cambridge, MA   **2003 - 2004**

Project: Electrostatic induction microturbine generator
Advisors: Jeff Lang and Lodewyk Steyn

- Developed circuitry to measure power produced by the generator
- Wrote Matlab suite to analyze and model generator response
- Designed and fabricated frame and support for generator and test equipment
- Tested and evaluated generator performance
- Published as co-author, *Generating Electric Power with a MEMS Electroquasistatic Induction Turbine-Generator*, IEEE MEMS2005

Information/Systems, MIT   Cambridge, MA   **Summer 2002**

- Programmed a C application to simplify printing from MIT Linux/Solaris system.
- Wrote the first drag-and-drop supported interface for printing from Athena.

Skills

Software

- Matlab, Mathematica, Octave
- SPICE circuit modeling
- SolidWorks, ProEngineer CAD
- Programming in C, C++, Java, Perl, Python, Scheme, Lisp, MySQL

Hardware

- Circuit design and construction
- Machine shop training and experience
- Network wiring and setup, computer assembly