

# KEN SCHUTTE

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**Objective** To obtain a challenging and interesting summer research position. Interests include speech recognition, understanding and indexing general audio, machine learning, and signal processing.

**Education** **Massachusetts Institute of Technology**

*Currently pursuing PhD in Electrical Engineering and Computer Science*

GPA: 5.0 / 5.0. MIT Presidential Fellow.

Member of Computer Science and Artificial Intelligence Laboratory (CSAIL) Spoken Language Systems (SLS) group, thesis supervisor James Glass. Teaching assistant for 6.003: Signals and Systems, Fall 2004.

*M.S., Electrical Engineering and Computer Science, 2003*

Thesis research involved signal processing techniques for the enhancement of speech intelligibility.

Member of the Advanced Television and Signal Processing Group under Professor Jae S. Lim.

Worked as grader for graduate course in Discrete-Time Signal Processing.

**University of Illinois at Urbana-Champaign**

**1997—2001**

*B.S., Electrical Engineering with Highest Honors, 2001*

GPA: 3.8 / 4.0. Computer Science minor. Recipient of the Henry O. Koehler Scholarship, Caterpillar Academic Scholarship, and E.C. Jordan Award. Member of Eta Kappa Nu ECE honors society. Member of Delta Upsilon fraternity.

**Experience** **Charles River Analytics**

**June 2003—August 2003**

*Associate Software Engineer in CRA's Machine Vision Group*

*Cambridge, MA*

Helped design and develop system for vehicle classification using acoustic and vibrometry measurements. Analyzed and implemented various feature sets for this task in both Matlab and C++. Developed GUI for data selection and classification.

**Zenith Electronics Corporation**

**June 2002—August 2002**

*Summer Intern in Digital TV R&D group*

*Lincolnshire, IL*

Worked on hardware design (VHDL) for DTV transport stream multiplexer. Gained thorough knowledge of ATSC and MPEG-2 standards.

**Princeton Summer Institute**

**May 2000—August 2000**

*Participant in summer research program at Princeton University*

*Princeton, NJ*

Worked on processor hardware design using VHDL & Verilog. Studied DSP and embedded systems for system-on-a-chip applications. Attended many multi-disciplinary lectures in areas of EE, CS and physics.

**University of Illinois**

**September 1999—May 2000**

*Undergraduate Teaching Assistant*

*Urbana, IL*

TA for Electrical and Computer Engineering 110, and introduction to ECE. Held regular office hours, answered questions, and tutored students. Graded exams and helped with online tutorials.

**Bioacoustics Research Laboratory, Beckman Institute**

**June 1999—August 1999**

*Research Assistant*

*Urbana, IL*

Research Assistant at the Beckman Institute's BRL. Collected and analyzed data for an acoustic imaging research project. Used Matlab and LabView software daily.