

TIMOTHY ZWIEBEL

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EDUCATION:

Northwestern University – Evanston, IL **Cumulative GPA: 3.89/4.00**
Master of Science, Computer Science **Graduated: December 2009**
Thesis – GAIL: A Design and Implementation of a Constrained Guarded Action Intermediate Language
Suitable for Rewrite-Based Optimization

Northwestern University – Evanston, IL **Cumulative GPA: 3.76/4.00**
Bachelor of Science, Computer Engineering **Graduated: June 2009**
Project Courses:
Winter 2006: Developed a device to allow a bilateral amputee to use hairspray
Spring 2006: Designed a prototype to support a PDA with captions in a theater
Spring 2008: Created a system that finds blog comments about the subjects of a news story
Fall 2008 – Winter 2009: Designed and built a wireless quizbowl system

HONORS & AWARDS:

- Graduated Cum Laude
- Graduated Best Graduating Computer Engineer
- Vice President of Eta Kappa Nu Honor Society
- Member of Tau Beta Pi Honor Society

WORK EXPERIENCE:

Northwestern University – Evanston, IL **Summer 2008**
Research Experience for Undergraduates

- Created a Scheme interpreter to run on MICAz wireless modules in a wireless sensor network
- Analyzed spatial and temporal locality of the Scheme interpreter to determine the impact of paging to Flash memory

Holland Applied Technologies – Burr Ridge, IL **Summers 2005, 2006, 2007**
Engineering Intern

- Designed and created Factory Acceptance Test Protocol Document
- Generated instrumentation lists from Piping and Instrumentation Diagrams
- Inspected instruments and piping for manufacturing defects and slope consistency

ACTIVITIES:

Design Competition – Team Entry **January 2007 – May 2007**

- Designed and built an autonomous robot to follow a line and move a flag

Theta Chi Fraternity **January 2006 – June 2009**
Secretary – Executive Board **March 2007 – March 2008**

- Managed correspondence with International Headquarters and the University

Assistant Treasurer **March 2006 – March 2007**

- Allocated and approved \$45,000 quarterly budgets

Slivka Hall Academic Committee – Floor Representative **September 2006 – June 2007**

- Organized educational events for the 140-student residential college

Northwestern Philharmonia Orchestra – Viola **September 2005 – June 2009**
Wheaton Symphony Orchestra – Viola **Summers 2004, 2005, 2006**

PROGRAMMING SKILLS:

Proficient in Python, Java, C, C++, Scheme, IA-32 assembly, VHDL, PHP, MySQL, XHTML, CSS,
JavaScript, MATLAB, Mathematica, Maple, Unix