

Jared Grubb

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EDUCATION ◇ **University of Texas**, Austin, Texas.

M.S. in Electrical Engineering, December 2006.
Cumulative GPA: 3.96.

◇ **University of Wyoming**, Laramie, Wyoming.

B.S. in Electrical Engineering & Mathematics, December 2003.
Minors in Computer Science and German
Cumulative GPA: 4.00, *Summa cum Laude*.

◇ **Carl von Ossietzky Universität Oldenburg**, Oldenburg, Germany.

October 2000 to July 2001. Coursework in Computer Science, German and Mathematics.

ACADEMIC ◇ **Guest Researcher** Forschungszentrum Telekommunikation Wien, Vienna, Austria.

EXPERIENCE Summer 2005. Researched in the field of Network Coding and Coding Theory.

◇ **Assistant Research Scientist**, Applied Research Labs, Austin, Texas.

Summer 2004. Helped develop a low-cost synthetic aperture sonar array application. Performed experiments at Lake Travis, wrote signal processing code in Matlab, created sonar images, designed experiments to test accuracy and precision of differential GPS systems, and performed code optimization that improved performance 4000-fold.

◇ **Part-Time Instructor**, Math Dept, University of Wyoming, Laramie, Wyoming.

Spring 2004. Taught one section of Calculus I. Responsible for scheduling, course preparation, lectures, grading, writing exams, and maintaining course website.

◇ **Teaching Assistant**, Elec. Eng. Dept, University of Wyoming, Laramie, Wyoming.

Spring 2004. Ran two lab sections for introductory electrical engineering course.

◇ **Teaching Assistant**, College of Engineering, Univ of Wyoming, Laramie, Wyoming.

Fall 2001, Spring 2002, Fall 2002. Ran seven lab sections for introductory engineering course.

PUBLICATIONS “Network With Costs: Timing and Flow Decomposition” (with Bodas, Sridharan, and Vishwanath). Int’l Workshop on Wireless Networks: Communication, Cooperation and Competition (WNC’3). December 2006. Submitted.

“Artificial Neural Network Controllers for Self-Excited Induction Generators” (with Suresh Muknahilipatna). Undergraduate research sponsored by NSF EPSCoR. Summer 2002.

“Proposal for Grant to Expand Internet and University Network Access to Greek Housing”. Funded. May 2000.

TECHNICAL ◇ **Engineering Intern**, Crystal Group, Inc., Hiawatha, IA.

EXPERIENCE Summer 2000. Developed an embedded-system chassis and CPU-card health monitor daughter card, which was later awarded Best of Show at Computer Telephony Expo 2001. Responsible for schematic design, low-level software drivers and hardware services, application code, and user interface HTML pages. Responsible for debugging prototypes and verifying final hardware design.

◇ **Engineering Intern**, Crystal Group, Inc., Hiawatha, IA.

Summer 1999.

- ◇ **Java Programmer**, www.OpenAI.net.
December 2000 to April 2003. Authored an original genetic algorithm implementation in Java for use in an open source project devoted to developing an artificial intelligence toolkit under the GPL.
- ◇ **Webmaster**
 - UT Electrical & Computer Engineering Dept, Austin, TX. Fall 2004.
 - Hallworks Glass Studio, Garber, IA. January 2003 to January 2004.
 - UW Center for Advising & Career Services, Laramie, WY. Aug 1999 to Aug 2001.
 - Gamma Xi Chapter of the Sigma Chi Fraternity, Laramie, WY, Sept 1999 to present.

ACTIVITIES ◇ **University of Texas**

AND HONORS

- NSF Graduate Research Fellowship Recipient, Fall 2004 - present
- David Bruton, Jr., Graduate Fellowship, Fall 2004 - present
- College of Engineering Thrust Fellowship Recipient, Fall 2006 - present
- Graduate Mentor in GLUE program, Spring 2007
- ◇ **University of Wyoming**
 - 1st Place, Senior Design Project. Electrical Engineering, Senior Design Symposium
 - 3rd Place, IEEE Area 5 Undergraduate Paper Contest. Spring 2004
 - W. L. Putnam Math Exam: 67th percentile (2001), 75th percentile (1999), 60th percentile (1998)
 - UW Tobin Memorial Award Finalist (outstanding graduating male senior), April 2004
 - Sigma Chi Fraternity: Spring 1999 to Spring 2004
 - Vice President, Recruitment Chair, Ritual Chair, Webmaster, Kitchen Manager
 - Attended week-long personal leadership development workshop, July 2000
 - Attended three chapter operations workshops, Aug 2000, Aug 2001, Aug 2002
 - Inter-Fraternity Council (IFC) : Fall 2001 to Fall 2002
 - President, Vice-President
 - UW Incoming Student Orientation Leader: Summer 2003
 - President 's Senior Class Ambassadors: Fall 2002, Spring 2003
 - Mortar Board Senior Honorary: Fall 2001, Spring 2002
 - Communications Chair
 - Tau Beta Pi: Fall 1999 to Spring 2004
 - IEEE Student Chapter: Fall 1998 to Spring 2004
 - UW Gold Finalist: Fall 2002
 - UW President's Honor Roll: Fall 1998 to Spring 2004
 - UW Trustees Superior Student Scholarship (tuition, room & board), Fall 1998 to Spring 2002
 - National Merit Finalist and National Merit Scholar

SKILLS

- ◇ Matlab, PHP, C/C++, Java, Python, HTML, CSS, SQL.
- ◇ MS Certified Professional, passed Wyoming Low Voltage Technician Licensing Exam.
- ◇ Fluent German; conversational Japanese.

REFERENCES Available upon request.