

LAURA M. GRUPP

EDUCATION

University of California, San Diego **San Diego, CA** **2007 - Present** **GPA: 3.74 on 4.0 scale**
Degree: Doctor of Philosophy, Computer Science and Engineering

Course Work Includes: Algorithms; Compilers; Complexity Theory; Databases; Operating Systems; Computer Security; Principles of, Parallel & Advanced Computer Architecture

University of Washington **Seattle, WA** **2004 - 2007** **GPA: 3.85 on 4.0 scale**
Degree Earned: Bachelor of Science, Electrical Engineering (Magna cum Laude) **Graduation: June 2007**

Course Work Includes: Devices and Circuits I & II, Design of Computer Subsystems, Microcomputer Systems, Digital Circuits and Systems, Computer Design and Organization.

PUBLICATIONS

Laura M. Grupp, Adrian M. Caulfield, Joel Coburn, Eitan Yaakobi, Steven Swanson, Paul H. Siegel, Jack K. Wolf. Characterizing Flash Memory: Anomalies, Observations, and Applications. *MICRO '09: Proceedings of the 42nd Annual International Symposium on Microarchitecture, IEEE/ACM, 2009.*

Adrian M. Caulfield, Laura M. Grupp, Steven Swanson. Gordon: Using Flash Memory to Build Fast, Power-efficient Clusters for Data-intensive Applications. *ASPLOS '09: Proceedings of the 14th International Conference on Architectural Support for Programming Languages and Operating Systems, ACM, 2009, 217-228.*

RESEARCH AND TEACHING EXPERIENCE

The Gordon Project, University of California at San Diego

September 2007 - Present

Advisor: Professor Steven Swanson

Description: Construct and maintain the Mongo flash translation layer simulator. Study and build models of Flash Memory, Spin Torque Transfer Memory and Phase Change Memory.

The Summer Science Program (SSP)

Summer 2003; Summer 2007

Supervisor: Dr. Tracy Furatani and Dr. Michael Faison; Dr. Ran Sivron and Dr. David Reitzel

Description: As student, then TA: Determined an asteroid's ephemeris, and submitted data for archival to the Minor Planet Center at the Harvard-Smithsonian Center for Astrophysics

Eta Kappa Nu Tutoring Center

March 2006-June 2007

Supervisor: Evan Goldstein

Description: Tutor students enrolled in introductory Electrical Engineering coursework.

University of Washington Autonomous Robotics and Controls Laboratory

June 2005 - September 2005

Supervisor: Andy Crick

Description: Worked on the development team for an autonomous ground vehicle for the 2005 DARPA Competition. Designed and implemented two programs to improve the interface with the GPS receivers.

University of Washington Nonlinear Dynamics and Controls Laboratory

June 2004 - June 2005

Supervisor: Professor Kristi Morgansen

Description: Improved and created components of a robotic fish. Components include the depth sensor amplifier circuit, radio transmitters and the compass.

PROFESSIONAL EXPERIENCE

Fluke Corporation

Summer 2006

Supervisor: John Lund, Principal Engineer

Description: Twelve week internship spent designing and implementing a communication scheme between a digital multimeter and a current probe. The communications were sent over the pre-existing measurement leads. Worked with supervisor to modify pre-existing digital and analog hardware as well as C code.

LEADERSHIP ROLES AND VOLUNTEER ACTIVITIES

Graduate Student Association

June 2007 - Present

Role: Social Committee Member

Description: Work with the Computer Science and Engineering department's staff and faculty as one of three students to organize quarterly social activities for graduate students, staff and faculty. These activities include BBQs, potlatches and skit nights.

Iota Upsilon Chapter of Eta Kappa Nu

June 2004 - June 2007

Roles: Secretary, President

Description: Worked with the Electrical Engineering department's staff and faculty as one of five officers to organize social activities, academic support programs and career development opportunities for the department's student body. These include BBQs, a tutoring center, tutorial sessions and a unique, casual setting for students, teachers and industry representatives to spend an evening together.

MEMBERSHIPS AND AFFILIATIONS

Society of Women Engineers	member since Jan 2005
Institute of Electrical and Electronics Engineers	member since Dec 2004
Eta Kappa Nu (HKN), Electrical and Computer Engineering Honor Society	inducted June 2005
President, Iota Upsilon Chapter	June 2006-June 2007
Secretary and President-Elect, Iota Upsilon Chapter	June 2005-June 2006
Student Advisory Board, UW Department of EE	Sept 2005-June 2007
Women in Science and Engineering (WiSE)	Sept 2004-June 2007
Tau Beta Pi, Engineering Honor Society	inducted Dec 2005
Golden Key International Honor Society	inducted Jan 2006
Girl Scouts of the USA	Lifetime Member

HONORS AND AWARDS

Microsoft Research Graduate Women's Scholar	2009
UW College of Engineering Emerging Leaders Scholar Award	2004-2007
Wayne C. & Grace M. Stanley Scholarship	2006-2007
SWE Outstanding Undergraduate Female Award	2006
Karl Ellerbeck Electrical Engineering Scholarship	2005-2006
NASA Space Grant Undergraduate Scholar	2004-2006
UW Undergraduate Scholar Award	2004-2006
NASA Summer Undergraduate Research Program Award	2004, 2005
US Marine Corps "Semper Fidelis" Award for Musical Excellence	2004
Essentially Ellington Contest Finalist, performing in Lincoln Center, New York	2003
Principal's Award for Academic Excellence and Community Service	2000
Girl Scout Silver Award	2000