

Afton Noelle Geil

Mobile: (940) 733-3087

E-mail: angeil@ucdavis.edu

RESEARCH INTERESTS

GPU computing, computer/graphics architectures, parallel programming, computer graphics

EDUCATION

University of California, Davis, California

Ph.D. Candidate, Electrical and Computer Engineering

Advisor: Prof. John D. Owens

Trinity University, San Antonio, Texas

Bachelor of Science, Engineering Science, Mathematics Minor, May 2011

Bachelor of Arts, Physics, May 2011

Graduated Summa Cum Laude

RELEVANT COURSEWORK

Graphics architecture, computer architecture, computer graphics, embedded systems, digital signal processing, digital system design, control systems, electronics and circuit design

EXPERIENCE

University of California, Davis

Graduate Researcher

September 2011 – present

Currently working on a GPU implementation of a 3D microscopic particle tracking application.

San Antonio Water System

Water Resources Intern

June 2011 – August 2011

Assisted with planning for acquisition of new water resources. Duties included data analysis, project scheduling and documentation, and supply/demand modeling.

University of Houston

Research Experience for Undergraduates

May 2009 – July 2009

Designed and conducted an experiment to determine the effect of plasma composition on the surface roughness of plasma-etched silicon wafers.

Texas Department of Transportation

Engineering Assistant

May 2008 – August 2008

Inspected construction of roads and bridges and tested materials to ensure compliance with state safety specifications.

COMPUTER SKILLS

C/C++, OpenGL, Assembly Language, Python, MATLAB, VHDL, LabVIEW, EES, Pro|Engineer, ExpressPCB

HONORS AND ACTIVITIES

Electrical and Computer Engineering First Year Fellowship, UC Davis

TOPS Award, UC Davis

Phi Beta Kappa Honor Society

Sigma Pi Sigma Physics Honor Society

Trinity University Scholar – top 15 students in the class

Semester Abroad in Christchurch, New Zealand – Spring 2011

Society of Women Engineers – Vice President (1 year) and Professional Development Chair (2 years)

Graffiti Wipeout – Trinity University Volunteer Action Community Program Head (2 years)

Trinity University Women's Water Polo Team – Member (4 years)