

GREGORY R. PITTS

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EDUCATION

Carnegie Mellon University May 2010
M.S Electrical and Computer Engineering
B.S. Electrical and Computer Engineering
B.S. Computer Science
GPA: 3.5/4.0

WORK EXPERIENCE

Syracuse Research Corporation, Syracuse, NY May – August 2009
ENGINEERING INTERN – Strategic Corporate Investment

- Used C, OpenGL, Objective C, and the Swarm agent-based modeling tool to create a virtual world used to simulate real life situations.

Syracuse Research Corporation, Syracuse, NY May – August 2008
ENGINEERING INTERN – Strategic Corporate Investment

- Wrote loadable kernel modules for Linux to improve operating system security
- Completed small projects involving the cloud computing tool GridGain and the data mining package Weka.

Carnegie Mellon University, Pittsburgh, PA Spring 2008
TEACHING ASSISTANT - Electrical and Computer Engineering

- Directed a lab for thirty students on the fundamentals of ECE

TEACHING ASSISTANT - Computer Science

- Assisted with lecture and held office hours teaching Java

Westinghouse Nuclear, New Stanton, PA May – August 2007
PROCESS AND PLANNING INTERN - Repair and Replacement Services

- Assisted in building a relay switch testing machine using LabView software.
- Designed user interfaces using AutoCAD

ACADEMIC PROJECTS

Embedded Systems: Linux kernel modification in C and application programming in java on Google Android phone and on Gumstix Processor. Fall 2009

Sports Engineering: In a team of four, created a tennis racquet that provides user with analysis of their swing and contact points. Fall 2009

Operating Systems: Designed and implemented a Unix based kernel in C and assembly from scratch in a team of two. Wrote a thread library in C. Spring 2009

Computer Systems: Wrote a dynamic memory allocator and a caching web proxy in C Fall 2008

Computer Gaming: In a team of four, created a multiplayer Asteroids game in C++ Fall 2009

Web Applications: Created a complex application similar to Rent-a-Coder. Fall 2009

SKILLS

Engineering and Software: Operating Systems, Embedded Systems, MATLAB programming, Web Applications, Game Programming

Programming Languages: C, C++, Objective C, Java, x86/x86-64 assembly, ARM assembly, MATLAB scripting, HTML, Javascript, Javabeans

Other: OpenGL, LaTeX Typesetting, Simulink, MiniTab, AutoCAD, GridGain, Weka.

LEADERSHIP

Beta Theta Pi Fraternity Fall 2005 – Present

- Treasurer: Managed a budget of over \$260,000 Fall 2009
- Risk Manager Three semesters Spring 2006 – 2007

Eta Kappa Nu Electrical and Computer Engineering Honor Society 2007 – Present

- Treasurer Fall 2009

Carnegie Mellon Varsity Football Team 2005 – 2008

- Three year letter winner at Running Back 2006 – 2008

HONORS AND AWARDS

Boeing Leadership Scholarship 2007

Walter F Rittman Scholarship: Outstanding Student Athlete 2006 & 2007

Eagle Scout Award 2004