

Paul Kennedy

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Objective: To obtain a job in hardware design, embedded systems, or information processing.

Education **Carnegie Mellon University** Pittsburgh, PA
Bachelor of Science in Electrical and Computer Engineering Class of 2012
ECE QPA: 3.14

Maine School of Science and Mathematics Limestone, ME
High School Diploma Class of 2008

Relevant Coursework

Introduction to Computer Architecture	Spring 2011
Digital Computation	Spring 2011
Logic Design using Simulation, Synthesis and Verification Techniques	Spring 2011
Embedded Real-time Systems	Fall 2010
Electronic Devices and Analog Circuits	Spring 2010
Signals and Systems	Spring 2010
Structure and Design of Digital Systems	Fall 2009

Work Experience **Ideas In Motion** Pittsburgh, PA
Tutor for High School Students in Calculus, Biology, Physics, and Programming. Spring of 2011

Maine Coast Memorial Hospital Internship Ellsworth, ME
Information Systems Specialist Internship January, 2008

Narraguagus High School Harrington, ME
Information Technology Specialist Internship January, 2007

Projects **MIPS Architecture, *Introduction to Computer Architecture*** Spring 2011
Single-cycle architecture which supports 47 MIPS instructions, pipelining and hazard resolution.

Bus Interface, *Logic Design using Simulation, Synthesis and Verification Techniques* Spring 2011
Implemented a bus protocol between a processor and two memory units. Capable of issuing read and write commands for 8-bit data packets. Written in SystemVerilog.

Operating System, *Embedded Real-Time Systems* Fall 2010
Written in C and ARM assembly for a gumstix embedded system.
Implemented several system calls including read and write. Handled mutexes and task scheduling.

Unix Shell, *Introduction to Computer Systems* Spring 2010
Allowed user to create many tasks in the foreground or background. Multithreaded. Written in C.

Web Proxy, *Introduction to Computer Systems* Spring 2010
Used the Berkeley sockets and p-thread libraries to implement a multithreaded web proxy. Used a most-recent hit caching system with mutexes to be thread-safe. Written in C.

Flickr Web Crawler, *Effective Programming in C and Unix* Fall 2009
Written in Perl, this program read the HTML of flickr.com web pages using regular expressions and downloaded relevant images using wget.

Leadership **Carnegie Mellon Objectivist Club** Fall 2009
Founder and president of philosophy club. Planned weekly meetings and hosted an on-campus lecture for a guest speaker.

Carnegie Mellon Game Creation Society Spring and Fall 2010
Project Leader and Programmer. Created a physics-based side-scroller in C++ with the Boost library. Worked on a small team with version control.

Skills **Programming Languages:** C, C++, Java, x86 and ARM Assembly, Verilog, SystemVerilog, Perl

Software: ModelSim, Synopsys VCS, NCSim, MATLAB, PrimeTime, Unix Shell, GCC, GDB, Valgrind, Mercurial, Git

U. S. Citizen