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OBJECTIVE

To obtain a signals, embedded systems, or data analysis internship or research opportunity for Summer 2010

EDUCATION

Carnegie Mellon University *Pittsburgh, PA*

May 2012

2.9 GPA, Bachelor of Science in Electrical and Computer Engineering

Relevant Courses: Structure and Design of Digital Systems, C & Unix, Intro. To Data Structures, ECE Math., Physics II

Century High School *Hillsboro, OR*

June 2008

3.96 GPA, AP Graduate w/ Honors

Relevant Courses: AP Physics, AP Economics, Electronics I & II, Drafting I, Robotics I & II

EXPERIENCE

PORTLAND STATE UNIVERSITY, Research Assistant, *Portland, OR*

Summer 2009

- Utilized cellular automata to simulate realistic models for self-assembling novel 3D computing architectures
- Analyzed the effects of wire growth parameters on overall wire cost, wire lengths, and node connectivity
- Used MATLAB to write a cellular automata generator, wire scanner, and complete data analysis functions
- Incorporated final research into a Network-on-Chip architecture conference paper in December 2009

ROCKFORD CORP., Technology Assistant and Web Developer, *Hillsboro, OR*

Summer 2008

- Resolved hardware maintenance issues and provided computing assistance to over 500 employees in the field
- Designed a new Wordpress-based website, hosted at rockfordpipelines.com

HILLSBORO H.S. INVENTEAM, Hardware and Software Developer, *Hillsboro, OR*

Spring 2007-July 2008

- Worked with a team of 6-8 students to develop two projects:
 - A self-installable aftermarket Heads-Up-Display for owners of any 1996 or newer car to reduce driver distraction by displaying important car information on the windshield.
 - An industrial cleaning robot designed for large spaces such as cafeterias or lobbies, supplementing existing janitorial staffs with little set-up and flexible scheduling
- Used hardware and C coding knowledge to develop a stable robot chassis and a remote control navigation system
- Developed an educational video to teach future InvenTeams how to correctly budget expenses. This video is planned to be distributed across the nation.
- Traveled and presented at various locations across Oregon and during the summer at MIT

PORTLAND STATE UNIVERSITY (PSU), Research Lab Assistant, *Portland, OR*

July-August 2007

- Participated with a team of high school students exploring atmospheric chemistry with PSU researchers
- Designed various experiments using university-level scientific method
- Used resources and analysis data from Internet, GIS, and specialized instruments

WELCH ALLYN, Software Engineering Intern, *Beaverton, OR*

Summer 2006

- Tested the company's Propaq vital signs monitor (used in hospitals) for EKG algorithm performance
- Used Octave (open-source version of MATLAB engineering software) to process data
- Learned the basics of signal processing and how it related to heart monitors and other instruments

SKILLS

Programming Languages: Java, Octave/MATLAB, C & Unix, Verilog, PHP/MySQL, Flash Actionscript, Ruby, Javascript

Operating Systems: Windows, Linux (Ubuntu), Mac OS X

Software: Xilinx ISE, VMware Server, Wordpress customization, Adobe Photoshop/Fireworks, Microsoft Office

ACTIVITIES

- Gadgetry 101 Stuco, Personal Arduino Projects (vision- and sound-controlled dancing robot, hard drive RPM game)
- Developing a local scholarship aggregation service in Ruby called ScholarGator, hosted at www.scholargator.com
- Maintaining my personal blog, www.nolanhergert.com

HONORS

- Hillsboro Elks Most Valuable Student Award
- Robert C. Byrd National Honors Scholarship
- Oregon Technology Student of the Year Award Runner-Up
- AP Scholar with Distinction