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ALAN SMITH

Objective To obtain a full time position in the field of Electrical Engineering. Available Summer of 2009.

Education **Rochester Institute of Technology**, Rochester, NY
BS/MS Degree, Electrical Engineering, expected May 2009
BS GPA: 3.89/4.00 MS GPA: 3.20/4.00
Awards: Outstanding Undergraduate Scholar (Spring 2008), Dean's List (2008-2004)

Coursework Digital Systems, C Programming, Semiconductor Devices, Circuits I & II, Electronics I & II, Digital Electronics, Linear Systems I & II, E & M Fields I & II, Matrix Methods, Random Signals and Noise, Communications, Microcomputers, Embedded Microcontroller Systems, Control Systems, Modern Control Theory, Multivariable Modeling and Control, Digital Signal Processing, Digital Image Processing, Pattern Recognition

Thesis Research Research for the Biomechanics Learning Lab at RIT in the Electrical Engineering department. Developing signal processing and pattern recognition algorithms of EMG signals. Developed algorithms will be used in an effort to control a robotic arm for future prosthetic research.

Employment **JLDSystems**, Lancaster, PA, Summer 2008
Completed R&D work for an AC Power Supply which will potentially become the company's first product line. Developed a prototype AC Power Supply integrating the Atmega2560 microcontroller and required power electronics. Created firmware for a piece of audio/video equipment.

Office of Naval Research, Bethesda, MD, Summer 2007
Independently designed an actuator motor control using a development board for the ADuC814 microcontroller. Designed a schematic using Orcad Capture in addition to a printed circuit board using Orcad Layout.

Welch Allyn, Skaneateles Falls, NY, Winter 2007
Active participant in R&D team for the diagnostic cardiology unit. Troubleshot various design applications and problems for cardio-pulmonary equipment. Played a supporting role to a various engineers.

PPL Electric Utilities, Lancaster, PA, Summer 2006
Performed duties to maintain circuit reliability and efficiency. Completed field work as well as circuit analysis with software. Participated in a team atmosphere with customer support engineers.

Skills

- Lab Equipment: Oscilloscope, Power Supply, Signal Generator, Digital Multimeter
- Embedded Microcontroller Systems (Assembly & C Programming)
- Creating Signal Processing and Control Algorithms
- Orcad Schematic Capture and Layout, Eagle Schematic Capture and Layout
- MATLAB
- Microsoft Word/Excel

Extracurricular Activities

- RIT Men's Soccer 2006-2008, Captain 2007-2008
- Intramural Dodge Ball, Volleyball, and Softball
- Inter-Varsity Christian Fellowship
- Volunteer work in Guyana, Spring Break 2005, Co-Leader 2006, 2007