Timothy E.W. Starr – BSEE

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Objective

A full time position in the field of Electrical Engineering where my skills in circuit design, programming and mathematics would be an asset.

Education

Clarkson University – Potsdam, NY: May 2006
Bachelor of Science in Electrical Engineering, With Distinction
Minors in Computer Science & Mathematics
GPA: 3.27/4.00, Dean's List

Projects

Simplified CMOS MIPS Processor – Worked in a team of eight to design, implement and test a 32-bit instruction, 8-bit data CMOS MIPS processor which had 10 instructions. Personal focus was on the ALU. Chose the ALU architecture, did transistor level schematic capture and simulation. Proceeded with layout, layout verification and simulation. Finished by integrating ALU into completed CPU.

DC Servo Motor Control – Designed, built and tested a precision DC servo motor control system in a team of four with open ended specifications. Used DAC0802 IC to interface with parallel port of a PC running the GNU/Linux operating system. Analog proportional feedback circuitry used to prevent the effects of loading. LabVIEW used to verify performance and used in prototyping of project.

Course Work

Advanced Digital Design	IC Device Simulation	Digital Signal Processing
Linear Circuits	Operating Systems	Microprocessors
VLSI Design	Microelectronics	Sophomore – Senior Lab

Qualifications

Software tools: Apache, CSS, LabVIEW, Maple, MATLAB, PSPICE, The Electric, Symantec Ghost, Shell Scripts, XHTML, ModelSim.

Programming Languages: C/C++, LabVIEW, MATLAB, Perl, SPICE, VHDL, x86 Assembly.

Operating Systems: GNU/Linux, MacOS X, Windows 98/NT4/2000/XP.

Equipment: Oscilloscopes, function generators, logic probes, multimeters, wave analyzers, power supplies and other lab equipment.

Specific Interests: Analog and digital filter design, amplifier design, C++projects and integrated circuit design, loudspeaker enclosure design and construction

Experience

Cornell University, Human Resource Information Systems & Records — *Server and desktop technical support*
Ithaca, N.Y. — **April – August of 2002 – 2006**
Provide technical support to end users on location, over the phone and through e-mail. Troubleshoot both hardware and software problems. Maintain multiple TCP/IP networks. Migrate users to new computers through the use of Symantec Ghost Corporate Edition. Migrated over 150 users from Windows 98/2000 to new hardware with Windows XP. Wrote documentation and procedures for Symantec Ghost v7.5 & v8.x .

Usedhockey.com — *Webmaster, floor sales and purchasing*
Ithaca, N.Y. — **June 1999 – August 2001**
Design and implement website layout and content. Maintain dynamic content, such as store inventory. Handle sales of hockey equipment to all types to customers, both large and small. Purchase new and used equipment singularly or in bulk. Note: Usedhockey.com, now Penaltyboxsports.com, is under new ownership and has had their website completely redesigned.

Personal Activities

Bass Guitar, Computers, Drumming, Electronics, Student IEEE treasurer and member, Clarkson Club Ice Hockey, Clarkson Auto Club, Clarkson Ski Club.

References and Transcript

Available upon request.