JEREMY W. LANGSTON

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OBJECTIVE

Obtain a challenging, interactive design and engineering career that will aid current development, beginning May 2009

SKILLS

Languages: C, VHDL, Verilog, Assembly, Python, C++, Java, Linux Scripting. *Software*: Linux OS, Altera Quartus, Diptrace, Microsoft Office. *Hardware*: Motorola HCS12, Intel x86, Altera FPGAs.

EDUCATION

M.S. Electrical Engineering   -   GPA: 3.77   2007-2009
Tennessee Technological University

- Focused on digital hardware design, system integration, and system availability benchmarking.

- Courses: Microprocessor Systems, Advanced Computer Networks, Computer Architecture (MS and PhD levels), High Performance Embedded Sys Design, Hardware Description Languages, Computer Security.

- Team Projects: Implemented a home security system using an HCS12 microcontroller, developed 5-stage pipelined processor with custom assembly language using an FPGA.

B.S. Computer Engineering   2001-2007
Tennessee Technological University

- Led several team projects, with emphasis in digital design. Wrote a scalable operating system for x86 architecture, researched wireless ad-hoc sensor networks, designed a video capture system on Intel PXA270 and Phillips SAA7113H for commercial use; designed a simplistic calculator with SSI gates and bubble-to-bubble logic, designed and built an LED display controller on the Motorola 68HC12, engineered peer-to-peer networking software.

- Courses: Computer Architecture, Sequential and Digital Logic Design and lab, Computer Systems, Networks, Professional Issues in ECE, Engineering Design Principles, Operating Systems.

EXPERIENCE

Intern   Summer 2008
DCS Corporation

- Worked in a team-based environment on US Army's Autonomous UGV platform under the FCS Program. Integrated COTS hardware and developed C++ software.

Research and Teaching Assistant   June 2007 to Present
Tennessee Technological University

- Studied reliability benchmarking in high-end computing, with emphasis in hard disk failures; multiprocessor memory and caching techniques. Taught the lab for Computer Systems, assembly language on microcontrollers.

Network Support Specialist   July 2005 to May 2007
Tennessee Technological University

- Aided in various network and computer system troubleshooting and installation capacities, including fiber optic areas; installed and maintained card-swipe operated doors; trained and supervised new workers; worked with clients to determine the best course of action.

Intern   Summer 2003
DuPont

- Maintained preventive maintenance database; performed as computer consultant and a database/spreadsheet analyst.

Network and Power Administrator, Co-Founder   July 2001 to April 2006
CompleetGamers

- Founded an organization for youth throughout Tennessee with common interests in computers.