Scott B. Thomas

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Objective

Obtain a challenging career utilizing and building on my experience in computer science and engineering.

Education

California Polytechnic State University, San Luis Obispo

Master of Science: Computer Science, June 2004.
Master's Thesis: The 3rd Generation CiNIC Host Interface
GPA – 3.9

Bachelor of Science: Computer Science, June 2004
GPA – 3.5

Work Experience

Lead Software Developer
Network Performance Research Laboratory, Cal Poly State University
June 2002 – June 2004

- Designed and developed communications interface between a host operating system and the Cal Poly intelligent Network Interface Card (CiNIC)
- Implemented designed interface in Linux using kernel modifications and kernel loadable modules
- Investigated the Linux kernel implementation of TCP/IP networking stack

College Intern – Test Development Engineer
Cisco Systems Inc.
June 2003 – September 2003

- Performed in depth analysis of router traffic testing processes using GigE and POS
- Examined router software architectures of Cisco Gigabit Switched Router (GSR) product routers
- Developed and implemented an improved test plan which covered gaps in current test coverage

Student Engineer
Applied Research and Development Facilities and Activities, Cal Poly Foundation
June 2001 – January 2002

- Spearheaded design and implementation of a communications package to collect and transmit Caltrans traffic data and streaming video from remote locations to the central Transportation Management Center.
- Implemented software to collect and format traffic data received.

Programs, Languages, and Relevant Skills

- Unix, Linux, Windows
- C, Java, C++, Tcl/Tk
- Cisco IOS, Ixia traffic generation
- Linux Kernel programming

Projects and Activities

- Implemented forward error correction and flow control algorithms utilizing both TCP and UDP.
- Authored "Securing a Wireless Network Using a VPN" submitted to ACM Crossroads

Leadership Positions

- Vice President of Member Development, Sigma Phi Epsilon Fraternity
- Engineering Student Council Representative, ACM – Cal Poly Chapter