

TECHNICAL EXPERIENCE

- Cisco Systems**, San Jose, CA, 6/09 – 9/09 *Software Engineering Intern*
Developed a testing suite named Calypso to stress test SNMP performance on Cisco's CRS-1, 12000 series, and ASR 9000 series service-provider routers. Calypso provides a simple framework to create complex polling patterns and generates graphical reports that include performance metrics like response times, dropped packets, and per-process resource usage. Calypso is being widely adopted throughout Cisco, won the Core Routing Business Unit's Test Innovation Award, and won the prestigious Cisco RAS Award in Q2 FY 2010.
- Cal Poly Supermileage Team**, San Luis Obispo, CA, 10/08 – Present *Electronics Engineer*
Built and raced a fuel-efficient vehicle that took 2nd place with 2,358.7 miles per gallon. Rewired the entire electrical system of the car and built an Engine Control Unit to control spark timing and fuel injection. Designed a data acquisition system from scratch to interface and log GPS, accelerometer, temperature, and ECU data and transmit wirelessly. Received 3rd place in Technical Innovation at Shell Eco-Marathon Americas '09 for data acquisition unit.
- Somers Technology**, Bakersfield, CA, 7/07 – Present *Owner, Web Developer*
Meet with clients to determine the requirements for their web site. Design an appealing layout and write custom web-based software to meet the clients' needs. Maintain and host client web sites and provide as-needed web site support to the clients themselves. Handle payments, contracts, and standard business operations of a small company.

WORK EXPERIENCE

- Cal Poly Computer Engineering Department**, San Luis Obispo, CA 4/09 – Present
Open Lab Assistant – Answer questions and provide assistance to students taking digital design courses.
- KWB Entertainment, Inc.**, Bakersfield, CA, 3/03 – 3/06
Lead Web Developer/IT – Maintained 50+ web sites, managed servers, supported office network.

EDUCATIONAL BACKGROUND

California Polytechnic State University, San Luis Obispo GPA: 3.39 major, 3.20 overall
Bachelor of Science in Computer Engineering, expected June 2010.

Computer Science Fundamentals	Circuit Analysis	Multivariable Calculus
Computer Architecture	Electronics Manufacturing	Linear Algebra/Analysis
Systems Programming	PCB Design	Newtonian/Relativistic Physics
Operating Systems Design	Digital Electronics Design	Engineering Statics
Advanced Security	Semiconductor Devices	Chemistry
Computer Networks	Microelectronics Packaging	Business Law
OpenGL Graphics	Programmable Logic	Oral Communication
Capstone Design Project	Microcontroller Systems Design	Technical Writing

SKILLS

- Proficient with C, C++, VHDL, OpenGL, TCP/IP, PHP, SQL, XHTML, XML, CSS, JavaScript.
- Exposure to Java, Assembly, Atmel AVR, Qt, Half-Life 2 SDK, version control, and design patterns.
- Knowledge of Microsoft Visual Studio, Xilinx ISE/EDK Design Tools, EAGLE CAD, Cadence OrCAD/Allegro, Apache, MySQL, Subversion, Git, Adobe Photoshop, Premiere, After Effects, and various flavors of UNIX/Linux and Windows operating systems.
- Experience in proposal writing, public presentations, seminar speaking, and technical documentation.
- Project-driven team-player with a creative, inquisitive mind and leadership experience.

RECOGNITIONS AND MEMBERSHIPS

- Interviewed by *The Wall Street Journal* and *Wired Magazine* regarding a personal project in which I built a handheld drum machine using a Nintendo Wii remote. (WSJ, 4/28/07 – *Magic Wand: How Hackers Make Use Of Their Wii-motes*)
- Eagle Scout, highest rank awarded by the Boy Scouts of America.
- Member of the Cal Poly Symphony and Pep Band, and the Blue Devils 'B' Drum and Bugle Corps.
- *Time Magazine's* 2006 Person of the Year.