

Education

- **University of Nevada, Reno** Reno, NV
Master of Science in Computer Science and Engineering Fall 2012
 - Course Work: Network Architectures and Economics, Excitable Cells Modeling, Human-Computer Interaction, Computer Vision, GPU Computing, Advanced Machine Intelligence Applications, Advanced Software Project Management and Development
 - **Thesis: Cognitive Models of Emotional Speech Processing and Music Perception**
- **University of Nevada, Reno** Reno, NV
Bachelor of Science in Computer and Information Engineering Fall 2010
 - Senior Project: Real-time Audio Processing on Xilinx FPGA
- **Växjö University** Växjö, Sweden
Semester-long Study Abroad Program Spring 2009

Experience

- **Brain Computation Lab, University of Nevada, Reno** Reno, NV
Graduate Research Assistant Fall 2010 – Present
 - Authored detailed, technical documentation for SBC products such as datasheets, user guides, and manuals
 - Provided HW and SW support and improved documentation via feedback to reduce time spent on support
 - Created programs to troubleshoot, rigorously test, and provide functionality for SBCs with embedded Linux
 - Compiled and modified Linux kernel and drivers to add features and HW to both existing and new products
 - Engineered and tested hardware components to insure accuracy and functionality for embedded designs
- **Brigham Young University - Idaho** Rexburg, ID
Student Computer Lab Administrator - Lead Tech May 2008 – Apr. 2009
 - Trained, coordinated, and guided a small team of students towards the completion of tasks involving all computer labs on campus
 - Administrated 62 labs, 1,300+ computers, and 17 PXE Servers in a two domain environment; Utilized Altiris Deployment Console and scripting; Specialized in RHE Linux deployments
 - Wrote concise installation and deployment instruction manuals and documentation for computer labs and 200+ software titles
- **Catch 80 Sports** Rexburg, ID
Network and Website Administrator Nov. 2006 – Jun. 2007
 - Implemented Windows based server with Linux based POS clients, reducing total cost of ownership
 - Contributed essentially to the company in the production of an e-commerce website with company inventory
 - Learned production of an entire e-commerce store in 1.5 months time with more than 2,800 products
- **Entrepreneurial Experience** Billings, MT
On Site Computer Tech Support Jan. 2004 – May 2005
 - Initiated a freelance computer tech support business which provided the community with affordable, on-site computer service, consultation, and training

Skills

Languages: C/C++, Assembly (x86), FPGA (Verilog HDL), MSDOS and Shell Scripting, L^AT_EX, HTML, CSS

Computer and OS: Proficient in Debian & Red Hat Linux, Windows 9x, XP, Vista, Mac OS X; Virtualization of Windows & Linux guests using Sun VirtualBox, VMWare, and QEMU; In-depth H/W and S/W knowledge and troubleshooting techniques; OS installations (Dual & Triple Boot); BIOS & EFI setup; purchasing and building PCs

Software: MS Visual Studio; Xilinx ISE; AnalogDevices DSP++; Cadence OrCAD; MatLab; Eagle PCB; Office Suites

Projects: 4 and 8 bit RISC CPUs with ALUs, counters, registers, and 1K RAM; Stereo amplifier with I/O, bass, treble, and volume controls; Power supply basics; Parallel port game controller; Portable microphone amplifier; WAV music player; Simple calculator; Remote cell phone control (embedded system) for INL ; Technologic Systems TS-WIFIBOX