

Derek Ryan Hildreth

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http://derekhildreth.com

Education

- **Brigham Young University - Idaho** Rexburg, ID
Bachelor of Computer Engineering; GPA:3.00 Jan. 2004 – Dec. 2009
 - Key Courses: Computer Architecture, Digital Systems Design, Microprocessors and Microcontrollers, Electronic Devices and Circuits, Electrical Circuit Analysis, Data Communications, Engineering Math, Engineering Physics, Feedback Control, Real-Time and Embedded Systems, Digital Systems Design, Senior Project
 - **BYU-Idaho Linux/Unix Society:**
 - * Mentoring Coordinator (Web Development) - Coordinated members of the society with new students
 - * Secretary - Documented and updated society webpage and communicated with other departments
 - * Performed undergraduate research on Web 2.0 and Beyond
- **Billings Career Center** Billings, MT
Cisco Networking Academy; GPA:3.33 Aug. 2002 - May 2003
 - Graduated Cisco Semester Four comprising of coursework in networking infrastructures including LAN and WAN design and implementation

Experience

- **Technologic Systems** Fountain Hills, AZ
Embedded Systems Engineer Aug. 2009 – Present
 - Wrote and formatted detailed technical documentation and manuals for single board computer SBC products
 - Provided professional, technical customer support and improved documentation to reduce support volume
 - Created software to troubleshoot, rigorously test, and provide functionality to embedded system 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 Bash Shell Scripting, L^AT_EX, HTML

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