Joel L. Haynie

E-mail: Joel@Haynie.com
Present address: www.Joel.Haynie.com

Objective To obtain a position in the field of embedded software and hardware system design for a team oriented and progressive company

Summary Team-oriented, self-motivated, problem solver with strong people skills.
Proven ability to quickly understand complex systems under own guidance.
Skilled with electrical engineering related test equipment, and a soldering iron.
Proven ability to prioritize tasks properly allowing for on-time product completion, while always being mindful of the direction of the company.

Experience **Scooter Software**, Madison, WI, 2008-Present
Software Engineer(Beyond Compare Development Team)
• Updated and Added support for tar, gzip, bzip format files in Beyond Compare 3.

Emerson Network Power, Madison, WI, 2006-2009(Downsized)
Software Engineer II(IPMI Lead for CPU-Centric Design Team)
• Designed, Updated, Tested & Released ports of Actel(Pigeon Point Systems) and proprietary IPMC Firmwares & Hardwares.
• Managed third party firmware repository synchronization for IPMC, MMC, MCH.
• Designed, Tested & Released IPMI code section of U-Boot for initial board bring-up.

Digeo Corporation, Longmont, CO, 2005-2006 (Aid in move to Wisconsin)
Firmware Consultant(Digital Video/Audio Embedded Applications Engineering)
• Work with SOC hardware engineers to author stable shippable driver firmware.
• Author, document, and maintain synchronized access to GPIO.
• Integrate, document, and maintain MPEG / AC3 audio decoders.
• Architect and develop Video / Audio synchronization firmware.
• Developed drivers for Video / Audio Output (HDMI, SPDIF, PCM, & Cable Card).
• General firmware cleanup projects, and system architecture consultation.

Maxtor Corporation, Longmont, CO, 2004-2005 (Move to Wisconsin)
Senior Firmware Engineer(Advanced Interface and Caching Group)
• Researched and developed solutions to current drives issues.
• Supported and deployed a large scale firmware testing environment.
• Interviewed potential candidates for positions in all firmware groups.

Quantum Corporation, Boulder, CO, 2002-2004 (Downsized)
Development Engineer (Value Smart Continuation Engineering)
• Engineering liaison to failure analysis for production products(DLT1,Saturn, VS-80)
• Researched and developed solutions to product issues including both mechanical / electrical hardware designs and firmware errata.
• Qualified replacement electrical components for both digital and analog systems
• Designed and supported electrical portion of Dell PowerVault 112T and 114T.
• Aided in design, implementation, and qualification of new channel card for VS-80, including board design/layout, EVT test plan/execution, and DVT test plan.

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Experience   **Benchmark Storage Innovations**, Boulder, CO, 2001-2002 (Acquired)
Development Engineer
- Engineering liaison to failure analysis for production products(DLT1, Saturn, VS-80)
- Qualified replacement electrical components for both digital and analog systems.
- Researched and developed solutions to product issues including both mechanical / electrical hardware designs and firmware errata.

Granite Microsystems, Mequon, WI, 2000-2001 (Moved to Colorado)
Applications Engineer
- Developed, maintained, and validated test fixture software and hardware
- Expedited conversions from engineering to production
- Researched and developed solutions to customer post-production questions.

University of Wisconsin - Platteville, Platteville, WI, 1996-1997; 1999-2000
Student Computer/Network Technician (Office of Information Technology)
- Diagnosed and repaired PC's, Mac's, and printers on campus
- Installed and tested LAN and phone equipment, wiring, and patch closets
- Worked in teams to complete building wide projects

University of Wisconsin – Platteville Foundation, Platteville, WI, 1997 – 1999
Student Network Administrator
- Installed, maintained, and supported a Novell, Windows 3.11/98/NT 4.0 PC LAN
- Upgraded all hardware, software, and licensing
- Trained users on Windows NT 4.0 and supported other specific software

Education   *University of Colorado-Boulder*, Boulder, CO, 2001-2004 (ABET Accredited)
Masters of Science in Electrical Engineering, 2004
- Emphases: Power Electronics, and Embedded Systems Design
- GPA: 3.7/4.0

University of Wisconsin-Platteville, Platteville, WI, 1994-2000 (ABET Accredited)
Bachelor of Science in Mathematics, 2000
Bachelor of Science in Electrical Engineering, 2000
- Emphases: Digital-Computers, Controls, and Communications
- Minors: Computer Science, Physics
- GPA in Mathematics: 3.3/4.0; GPA in Engineering: 3.5/4.0

Related   Real-Time Embedded Software Systems, Embedded System Hardware Design,
Course Work UHF Amplifier, Oscillator, and Microstrip Design, Waveguides, Parallel Processing,
Advanced Computer Architecture, Network Programming, Power Electronics I & III
See complete list: http://www.joel.haynie.com/COURSES.HTML

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Related Skills

- Programming Languages — Assembly(80x86, 8051, 68k, PPC, PIC, TI, H8S, ARC, AVR & Custom), MatLab, Simple VHDL / Verilog, Fortran, Basic, HTML, Pascal, C, C++, Java, Delphi

- Laboratory Equipment — Oscilloscopes, Function Generators, Curve Tracers
  Bus, Logic, Network, Spectrum, & Timing Interval Analyzers

- Hardware — 8086, 8051, ARC, 68k, PIC, PPC, H8S, Basic Stamp, ATmega Z8, TI DSP, FPGA, SBC, Routers, Switches, and Hubs

- Software — MatLab, Schematic Capture(Power Logic, OrCAD)
  Waveform Simulation(PSpice, Altera Max-Plus II), Code Build Chains, Version Control Systems(PerForce, CVS), VMs
  Word processors, Spreadsheets, General / Advanced Network Tools, Familiar with Most GUI Interfaces, and Batch Processing

- Protocols/Buses — PATA, SATA, SCSI, PCIe, PCI, ISA, PCMCIA, PC/104+, GMII, SERDES, sRIO, KCS/LPC, RS-485, RS-232, I2C, I2S, SPI, S/PDIF, HDMI, Cable Card, Compact Flash, Ethernet(MAC), IP, TCP, UDP

- Operating Systems — VMS, Novell, Digital Unix, BeOS, Solaris, Linux
  MS-DOS, Windows 3.11, 95, 98, Me, 2000, XP, & NT 4.0
  RTOS: RTX-Tiny, VxWorks, MQX, Homebrew

Activities and Interests

- Eta Kappa Nu - 1997-Present
- Scored 10 on Putnam Exam, Fall 1998
- Acoustic and Live Music, Hi-Fi Audio, and Tube Amplifiers
- High / Low Altitude Hiking, Canoeing, and Camping
- Woodworking and Metalworking

References

- Furnished Upon Request