Kevin R. Bulgrien

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OBJECTIVE

Responsibly combine experience with learning to strategically craft technical solutions, processes, and documentation that delights and empowers peers or end users in their own quest to effectively serve others. Create or utilize existing software, hardware, tools, or other applicable resources best suited to meet demanding requirements while maintaining a strong commitment to exceptional integrity, quality, service, and continuous improvement.

SKILLS

Strengths Finder 2.0	Learner Intellection	 Responsibility Belief	Strategic
Hardware • •	Design & Integration Manufacturing Support Logic & Bus Analysis	 Embedded Technologies PCB & Schematic Capture Troubleshooting & Repair 	Digital ElectronicsComputer-On-ModuleTest Equipment
Development • •	C & C++ Shells & Scripting Interrupt Handlers GNU Make & Autotools	 FORTH & Pascal Web & Markup Communications Technical Writing 	AssemblySQL & DatabaseGTK & libgladeDoxygen
Software • •	Office Tools, Utilities Difference Analysis CVS, SVN, Bazaar	Graphics & DiagrammingDebuggers & AnalyzersGNUCash, QuickBooks	Schematic Capture & PCBDevelopment EnvironmentsInstallers
Environments •	Linux & Unix HPUX, Solaris	Windows & DOSHP-Basic	EmbeddedNovell & Other
Servers •	Various Linux & Unix Firewall, Security Tools	 Apache, PostgreSQL Web Applications	DHCP, DNS, NTP, SSHVirtualization Technologies
Infrastructure • •	Networking, Telephony Hubs, Switches, Routers	SM/MM fiber opticsMultiplexers, Port Servers	T1, ISDN, RS-232, RS-422Printers, Terminals

EXPERIENCE

Apr 2015 - Present

Freedom Communication Technologies, Inc., Kilgore, Texas System Engineer

- Design, implement, and maintain Windows Embedded operating systems.
- Specify embedded system platforms, components, and operating systems.
- Design, implement, and maintain manufacturing equipment.
- Mature and continuously improve documentation, process, and automation to drive quality and efficiency into product deployment.
- Deploy, maintain, and utilize information tools to capture and preserve business data.
- Deploy and administer Linux servers that host version control, web and database applications, shell environment, customer/contractor portals, etc.
- Deploy and maintain Windows Embedded Standard tools and SQL Server instances.
- Facilitate replacement of assets with legacy operating systems as part of a judicious migration to more sustainable systems.
- Configure, deploy, and leverage virtualization tools such as VMware ESXI and VMware vCenter to facilitate engineering development, release, etc.
- Specify, deploy, and guide maintenance of company computing and network infrastructure, including Windows Server 2012, related domain, and Active Directory.

Oct 2000 - Apr 2015 General Dynamics Missions Systems, Longview, Texas

formerly TriPoint Global Communications, VertexRSI, General Dynamics SATCOM Technologies Senior Electrical Engineer

- Design, implement, and maintain Windows Embedded and Linux operating systems.
- Specify embedded system platforms, components, and operating systems.
- Design, implement, and maintain manufacturing equipment.
- Design, develop, and maintain C/C++ applications to deploy on or interact with embedded systems.
- Troubleshoot, diagnose, and mitigate severe embedded product technical issues including CFLASH/SSD corruption, system instability, etc.
- Mature and continuously improve product development via documentation and scripted process automation to drive quality and efficiency into product development.
- Design and implement monitor & control interfaces via data-driven model to generate documentation and code for embedded systems and associated client applications.
- Package software with tools like Flexera InstallShield.
- Diagnose and repair embedded system software and tools often without prior application experience. For example, troubleshoot and maintain embedded systems implemented in FORTH, diagnose and repair malfunctioning CPLD code, debug NI LabVIEW software, and patch a malfunctioning assembler.
- Use tools such as assembly language, gcc, and Dynamic C, etc. to implement embedded product subsystems.
- Deploy, maintain, and utilize information tools such as Wiki, forums, and newsgroups to capture and preserve business critical data.
- Deploy and administer Linux servers that host version control, web and database applications, shell environment, etc.
- Configure and maintain SQL Server instances to support Windows XP Embedded Development Suite.
- Maintain HP BASIC, FreeDOS, and various legacy operating systems on manufacturing equipment.
- Maintain and support HPUX and Solaris servers that host legacy product intellectual property and development tools.
- Utilize schematic capture and board layout tools to implement/modify board designs. Implement resolver and optical encoder interfaces in embedded systems.
- Specify and utilize design comparison tools to assure accurate implementation of schematic and printed circuit board engineering change orders.
- Design and implement embedded software on a Delta Tau Turbo PMAC2 for data acquisition in multiple 4-meter optical telescopes.
- Configure, deploy, and leverage virtualization tools such as VMware ESXI, Oracle VM VirtualBox, and Microsoft Virtual PC, to facilitate engineering development.

Jun 1999 - Oct 2000 Ronald Hill dba CompSupport, Longview, Texas Network Engineer

- Support SCO and NCR UNIX systems, terminals, devices, and personal computers.
- Multi-user computer system serial and network communication systems support.
- Network cable plant installation, certification, and as-built documentation.
- Consultation, design, implementation, and maintenance of enterprise-wide LAN/WANs deployed over POTS, Ethernet, ISDN, T1 and SM/MM fiber optic services.
- Site surveys, project estimating, proposal drafting, project management, and deployment of cabling and telephone services as an authorized contractor for a Competitive Local Exchange Carrier (CLEC) in two metropolitan areas.
- Y2K problem diagnosis and intermediate solution provided for cable TV switching router at AT&T/TCI Cablevision in Dallas, Texas.

Apr 1992 - Jun 1999	EDP Enterprises, Inc., Longview, Texas Senior Systems Engineer			
	 Extensively deployed and supported NCR System 3000 UNIX and Microsoft NT 4.0 servers and their serial data and Ethernet LAN/WAN communication networks. Responsibilities included in-depth telephone support, diagnosis, and on-site analysis/repair of operating systems, application software, third-party software, computer systems, and serial/Ethernet/POTS/FDDI/T1/ISDN/56K/Frame Relay communication equipment. Designed, developed, and maintained comprehensive software diagnostic tools to facilitate problem diagnosis and resolution. Technical programming in C, COBOL, Seay Systems I-Shell, Awk, and Bourne Shell scripting for interfacing client software, third-party applications, and hardware, including printers, terminal servers, print servers, and port servers. Extensive technical writing to document support and installation procedures. Technical consultant to internal development personnel and customer support staff. Performed component level and card level repair of NCR data entry terminals. One year of departmental supervisory experience. 			
Nov 1998 - Dec 1998	Encore Multimedia, Longview, Texas Technical Consultant			
	Supported production of an interactive, multimedia CD-ROM.			
Jul 1986 - Aug 1991	LeTourneau University, Longview, Texas formerly LeTourneau College Information Technology			
	 Responsible for enterprise-wide software and hardware support of Windows 3.x, DOS, CP/M personal computer systems, peripherals, and users. Occasionally supported DEC MicroVax II and IBM System 36 servers and users. Duties included need/problem analysis, product assessment, procurement, installation, end-user training, and support. Repaired computer equipment at card and component levels. Developed software for campus personnel. Authored procedure manuals for tasks and repairs performed by the computer information technology office. Analyzed office operation and developed custom software to facilitate office organization and information management. 			
Jun 1991	Riverway Company Contract Programmer			
	• Develop software to monitor, process, and display barge tug engine, fuel, and Global Positioning System real-time data collected via multiple RS-232 serial ports.			
Nov 1987 - Mar 1989	LeTourneau University Research & Advanced Development Institute Longview, Texas Contract Programmer • Design and implement an escrow accounting program using dBase III and Clipper.			
	Provide documentation, training, and support.			
EDUCATION				
1982 - 1986	LeTourneau University, Longview, Texas B.S., Computer Science & Electrical Technology			
1982 - 1982	Saint Clair County Community College, Port Huron, Michigan			
1978 - 1982	Sandusky High School, Sandusky Michigan			