

David V. Klamet

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Summary

- Over fifteen years experience in senior development positions in the aerospace, communications, and video surveillance industries
- Extensive knowledge of software development practices and tools with an emphasis on Linux, especially embedded Linux, and common programming languages (C/C++, Perl, Python, shell scripting)
- Broad range of technical experience from component level repair, application development, system administration, backend server development, to software development of spacecraft telemetry systems, avionics, and embedded software for digital communications

Education

B.S. Computer Science, 1990, University of Kansas

Professional Experience

Senior Embedded Software Engineer
Tel Instrument Elec.
11/2015 to present

Leading development role in portable, tablet-sized avionics test set. Primary responsibility for software architecture, Yocto Linux BSP maintenance, and configuration.

Created project software architecture definition. Primary responsibility for software implementation. Primary interface with outsourced development resources. Developed acceptance criteria for the deliverables.

Senior Embedded Software Engineer
Digital Ally
3/2013 to 10/2015

Developed embedded Linux-based digital video surveillance systems for law enforcement and commercial vehicles. Responsibilities include requirements definition, design, development, maintenance, mentoring junior engineers, and hardware design reviews.

Senior Software Engineer
Landis&Gyr
11/2011 to 3/2013

Performed software maintenance and enhancement on the backend systems used to automate utility meter reading through an RF network.

Responsibilities also included development and enhancement of automated monitoring and testing tools on all system components. The backend system was comprised of Sun Solaris servers running multiple Oracle RDBMS's, C/C++ applications, Apache/Tomcat webserver, PERL and shell scripts.

Director of Software Engineering
RELM Wireless
Lawrence, KS
4/2004 to 10/2011

Added enhancements and features to wireless transceiver software on an embedded Linux platform. Tasks included driver tweaks, maintaining the build system, application feature additions, and code refactoring.

Developed and enhanced products ranging from a small encryption module written in AVR assembler to implementation of high level OTA (Over The Air) communications protocols in C/C++. Tasks included porting low level hardware interface routines (to codecs and other peripherals) connected via SPI, I2C, and RS-232 interfaces to different hardware platforms.

Installed and maintained software development tools, including IDEs, compilers, version control, and other software development tools including embedded Linux development. Provided primary support for these tools to other developers and provided backup support for all computer systems.

Responsible for a team of 5 software engineers and multiple development projects including support of legacy products and outsourced development. Primary responsibility for software development on all products.

Consultant
for CDI Corp at
Honeywell
International
Olathe, KS
6/2003 to 4/2004

Performed Unix administration duties including computer installation, process automation, and configuration on SUN Solaris clustered servers. Wrote tools to automate system administration tasks in PERL and shell scripts.

Primary interface to Unix users to determine, define, implement solutions to fit user needs.

Consultant
for Venturi Partners at
Sprint PCS
Overland Park, KS
9/2002 to 6/2003

Wrote PERL and KSH scripts to automate auditing and deployment of application executables to multiple testing environments. Documented existing processes and participated in the development and documentation of new processes.

Provided training and mentoring to junior team members on configuration management principles, tools, and processes. Provided Unix support and training as required for junior team members and application developers.

Software Engineer
Raviant Networks,
Leawood, KS
4/2001 to 8/2002

Member of a team developing a high performance database engine for the telecom industry. Responsible for software configuration management: maintaining the version control system, performing builds, maintaining and enhancing build makefiles and scripts, and maintaining scripts and files associated with software installation.

Other duties included supporting developers, testers, and field support personnel on development tools (including Rational Clearcase and Rational Purify/Quantify), writing PERL and shell scripts to automate development and software testing tasks and other technical areas as required.

Senior Software Engineer
FriendlyWorks,
Lenexa, KS
5/2000 to 4/2001

Investigated technologies and tools related to web portal development. Wrote Java applications and SQL routines to load XML data from the ODP (Open Directory Project) into a relational database. Developed Java servlets and applications to use this data to implement a prototype web portal with a searchable directory.

Unix Administrator
CDI Corp. consultant at
Honeywell AES,
Olathe, KS
10/99 to 5/2000

Primary technical responsibility for support of all Unix operations on a network, which consisted of 20+ HP and SUN servers and 100+ SUN workstations. Improved reliability and efficiency of backups. Wrote PERL and shell scripts to support various applications and to monitor server operational and backup status.

Supported a user community consisting of electrical engineers, mechanical engineers, software engineers, drafters, and administrative personnel. Performed OS and hardware upgrades. Resolved user, application, and server problems. Installed and supported Apache, GCC, PERL, and other open source software for use by developers and other users.

Software Engineer
UnitedSpaceAlliance,
Kennedy Space Center,
FL
1997 to 1999

Member of a team developing the Shuttle Data Center, a facility to record and distribute ground test data and flight telemetry from the Space Shuttle. Responsibilities included Unix system administration of Digital Unix servers and workstations, software configuration management, application development, software testing, and developer support and training.

Performed installation of commercial, open source, and internally developed application software. Maintained web servers and associated software. Resolved system integration issues with web servers and applications (JAVA, CGI, HTML), ORACLE applications, and other internally developed software.

Performed system software builds and maintained the build environment. Wrote application software using C, PERL, and shell scripts as required.

Trained developers on configuration management and other development tools. Provided technical assistance to developers, system administrators, and users in troubleshooting and correcting problems with applications, interfaces, and environments used for the Shuttle Data Center.

Unix System Administrator
AlliedSignal Avionics
Systems,
Olathe, KS
1995 to 1997

Responsible for all aspects of support for more than 100 UNIX workstations. Planned and implemented major SUN and HP OS upgrades. Installed and maintained a SUN Enterprise 3000. Maintained DNS and migrated DNS server from a VMS system to a Solaris server.

Responsible for anticipating needs, writing proposals, evaluating products and vendors, ordering, and installing all equipment for this system. Provided Unix-related assistance to organizations at two other sites.

Software Engineer
AlliedSignal
Olathe, KS
1995 to 1997

Software lead on a team doing a design upgrade on a panel mounted GPS. Responsibilities included resource scheduling, requirements definition, and software development.

Software Engineer
Garmin International,
Lenexa, KS
1994 to 1995

Wrote Windows software for testing and programming electronic equipment using Microsoft Visual C++ and Microsoft Foundation classes.