

OOLAN M. ZIMMER

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QUALIFICATIONS SUMMARY

- More than 10 years kernel-mode/embedded experience with Linux, NetBSD, and Solaris
- Working knowledge of a wide range of technologies
- Can quickly grasp new technologies
- Can focus on big picture and details at the same time
- Rapid, creative solutions to demanding problems
- Flexible: can work independently or in a team, as a contributor or leader, with waterfall/linear or agile/iterative methodologies
- Leadership, planning, estimation, and project management experience

RELATED EXPERIENCE AND ACCOMPLISHMENTS

12/07-3/09 *QA Lead, Wasabi Systems Inc.*

- Managed Software Quality Assurance for high-profile storage product line
- Created and documented SQA strategy, release procedures, defect management procedures
- Interfaced with customers
- Designed, implemented automated test framework and tests
- Performed project planning, task decomposition, and deliverable estimation
- Supervised developers
- Co-ordinated developer merges into trunk/HEAD; oversaw release branches
- Performed change management, release management, and defect management

9/06-11/07 *Senior Engineer, Wasabi Systems Inc.*

Planned and implemented multicast extensions for embedded customer:

- Gathered requirements from customer, managed scope with customer
- Integrated third-party IGMPv3 and MLDv2 protocol stacks with NetBSD kernel
- Worked with customer to manage project scope
- Wrote detailed test plan and automated tests to implement test plan

Worked on a team to develop a 802.11n Wi-Fi access point:

- Added 802.11n extensions to NetBSD's 802.11 protocol stack
- Added support for virtual access points to 802.11 protocol stack
- Ported drivers for additional devices to new protocol stack
- Added 802.11h/DFS and DWDS to 802.11n protocol stack
- Agile methodology, test-driven development

Other work includes:

- Solved SMB performance problem in NetBSD TCP/IP stack
- Performance tuning of 10 Gigabit Ethernet driver
- Created build system to cross-build NetBSD from Ubuntu Linux
- Wrote technical documentation

2/00-8/06 *Senior Engineer, Gcom, Inc.*

Created a distributed channelized Linux-based T1 line monitoring product:

- Conceived product idea to intercept and analyze channelized T1 traffic
- Gathered requirements from potential customer
- Gave sales presentation for custom product meeting their needs
- Planned project, including high-level design of product
- Created .Net-based front-end application
- Coordinated efforts of 3-5 individuals in bringing a new product to market.

Created user-mode synchronous serial autoconfiguration software:

- Conceived idea to deduce synchronous serial configurations and overlying protocols
- Designed algorithm, using active probing and careful study of corner cases in the related protocols
- Implemented user-mode software

Wrote device driver for 4-port T1/E1 interface:

- Wrote Solaris device driver, ported to Linux
- Developed related user-mode control and test programs
- Redesigned driver to support a change in underlying hardware
- Performed detailed performance assessment and optimization
- \$700,000 in gross profit from sales and over \$300,000 in support revenue

2/98-2/00 *Independent Contractor, Client: Gcom, Inc.*

- Integrated 3rd party Linux T1 device driver with Gcom's protocol stacks
- Ported X25/Bisync 3780 protocol stack from MSDOS to Windows NT
- Ported X25/Frame-Relay protocol stack from Unix SVR4 to Windows NT

SKILLS

Languages	C, C++, SPARC/MIPS/x86 Assembly, Shell Scripts, Mathematica, Perl, Smalltalk, Lisp, FORTRAN/HPF/F90, SQL, XML, HTML, CSS, Visual Basic .Net, Java
Environments	Linux kernel, Solaris kernel, STREAMS, FreeBSD kernel, NetBSD kernel, Win32, WDM/NTDDK, .Net framework, JavaBeans, Java RMI, CORBA
Tools	NetBeans, Eclipse, Visual Studio, LaTeX, Emacs, GNU tools, CVS, SVN, Quanta+, Code Collaborator, MySQL, Berkeley DB
Standards	iSCSI, SCSI OSD/SAM/SPC, T1/E1, HDLC, LAPB, LAPD, MPI, SNMP, 802.11/Wi-Fi, TCP/IP, HTTP, IGMP, MLD

EDUCATION

Received MS in Computer Science in 1998, The University of Illinois at Urbana-Champaign
MS Thesis Topic: "FM-T: A Thread-Based High-Performance Messaging Layer for the HP/Convex Exemplar"

Received BS with Honors in 1993 from Haverford College, Haverford, PA
Major: Mathematics with concentration in Computer Science

AWARDS

- 5/96 Inducted into Phi Kappa Phi
- 5/93 Inducted into Phi Beta Kappa
- 3/88 Eagle Scout, Boy Scouts of America