

Noji Ratzlaff

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Qualification Summary

- Lead Software Engineer
- Team Lead for software development
- Project Manager twice on various projects
- Over 20 years of skilled software experience, including coding, testing, documenting, and support of professional end-user applications, storage device drivers, test tools, and other hardware interfaces for Windows Client, Windows Server, Linux, NetWare, and ThreadX RTOS
- Many years of professional web development and maintenance experience
- Excellent documentation writer with corporate-level written English skills
- Exhibits a keen perception for customer needs while implementing ROI-oriented solutions
- Recognized many times for solving difficult and unusual problems
- Friendly, trustworthy, and adapts well to corporate culture

Specific Skill Set / Knowledge Base

.NET	C/C++	C#	VC++	VB	Windows
PHP	HTML	Javascript	CSS	MySQL	Win Server (64-bit)
Java	Python	WinDbg	RTOS	x86_64 Assembly	
Matlab	SCSI	ATA/IDE	AHCI	SAS / SATA	Linux / Unix
SVN	Mercurial	ClearCase	CD/DVD	BASH / CSH	NetWare

Professional Experience

Project Management

Twice as Project Manager, worked with the Product Manager to oversee the production of customer software, the first time a UI test tool set and the second time a set of host adapter drivers, both times with accompanying full documentation and website support

Software Team Lead

Led a team of software developers for several years to produce internal and external customer applications and web interface for operating system qualification of a variety of platforms

Lead Software Engineer

Led a team of software developers in creating the drivers and underlying software RTOS structure of X-ray machines that perform video imaging, in varying stages of the product

End-user Applications Development

Developed, documented, maintained, and supported hardware-interfacing, web-interfacing, and logging Windows applications in C#, VC++, VB, and LabVIEW for both internal and external customers

Pioneered development and support our first certification test suites and test cases, which allowed partner companies and third-party developers to perform automated self-testing of hardware products and to compile and submit the results

Professional Experience, continued

Web Development

Maintained, developed, and managed all corporate web pages in PHP, HTML, CSS, Javascript, and MySQL

Developed all help, download, archive, and other web pages to support applications authored by me

Driver Development

Developed, maintained, and supported Windows kernel drivers (WDM) for various PCI Express SSD controller cards

Developed, tested, documented, and maintained SAS/SATA drivers for storing multi-frame (Cine) X-ray images on X-ray workstations running ThreadX RTOS

Developed, documented, maintained, and supported storage device drivers, especially SATA, AHCI, IDE and SAS drivers, interfacing between operating systems and their storage devices

Test and QA Applications Development

Coded, maintained, and documented certification test applications, greatly enhancing the test suites to allow for a larger variety of hardware product certifications

Developed unit tests, verification tests, stress tests, and SMART tests for the SAS/SATA driver and associated devices, along with accompanying test cases, test procedures, and supporting documents to direct the tester through device verification and validation per ISO 9001 and FDA 510(k)

Developed Python scripts for testing, reporting, and file manipulation for driver qualification

Developed both kernel and user applications for Linux

Developed QA tests (component tests, unit tests, stress tests) and accompanying test cases and procedures for the Zehntel 810 ATE (bed-of-nails), to white-box test add-on cards and power supplies

Customer Interfacing

Resolved numerous operating system, interface, and driver defects, enabling us to present customers with a more reliable set of products

Provided phone, email, and personal support to help partner companies (IBM, Dell, HP, Adaptec, LSI, Promise, Acer, Initio, ICP vortex, etc.) develop their drivers, which helped us garner great rapport with developers globally

Taught many formal classes, both onsite and locally, on storage driver interface architecture to outside developers

Instructed all new QA personnel in the test procedures, test requirements, and results reporting and compilation of all QA tests

Accomplishments and Recognition

Inducted into the Engineering Circle of Excellence for being one of the first in the world to implement Intel's AHCI specification, to permit easy interfacing between the operating system and SATA storage

Received the "Rock" award by peers for developing a Linux application that saved us more than \$200,000 annually

Awarded several "Star" and "One" awards for solving time-sensitive and mission-critical developer problems

Awarded Employee of the Month twice for resolving difficult third-party developer issues

Awarded Employee of the Year for pioneering the certification test suite development

Employment

<i>Lead Software Engineer</i>	6 years	Quartzdyne, Inc., Salt Lake City, Utah
<i>Senior Software Engineer</i>	1 year	Fusion-io, Salt Lake City, Utah
<i>Lead Software Engineer</i>	1 year	General Electric, Salt Lake City, Utah
<i>Software Team Lead</i>	4 years	Novell, Inc., Provo, Utah
<i>Senior Software Engineer</i>	13 years	Novell, Inc., Provo, Utah
<i>QA Engineer</i>	3 years	Wicat Systems, Provo, Utah

Education

BSEE Brigham Young University, Provo, Utah

Senior project was digital communication over a wireless analog carrier
Double-majored in Mathematics