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| 26 Woodcrest Drive Hudson, NH 03051 http://ninecrows.com | Kyle Wilson Principal Software Engineer | Tel: 603-579-0504 Cell : 603-440-3684 Email: kyle@ninecrows.com |

More than ten years as a software engineering lead and senior level individual contributor, with a focus on software architecture and large and complex projects in Windows, Unix and embedded environments, using object oriented design techniques and C++ as the primary implementation language. Involved in all aspects of the design and development process from product definition to final release testing. Proven leadership skills, substantial knowledge of a broad range of operating systems, programming languages and protocols as well as a background in digital electronic design.

Broad experience in both developing code and leading development teams. Have worked with large and small teams on application level and embedded projects. Successful development projects involve a balance between the big picture and detailed implementation. I strive to be a top notch programmer and an effective leader, building on established technologies while always keeping an eye on new developments. Successful projects are built around a base of proven technologies with selective use of new technologies and approaches, where they will materially contribute to the overall project or its successors.

I have a degree in electrical engineering and strong physics and mathematics background that have made me significantly more effective when working with the other disciplines that are involved in developing hardware/software systems. I have the technical breadth and depth to allow me to attain a useful level of understanding in most areas quickly.

**Extensive Experience:** Software Architecture, Advanced C++, COM, STL, Win32, Windows Operating Systems, Windows Driver Development, Unix, Perl, ATL, NT Service Programming, TCP/IP, Sockets, Multithreading, C, Embedded Systems, Assembler Languages (Including Intel x86), SCSI, TIFF, JPEG, Data Compression, MAPI, SNMP, XML, VSS, Dicom-3, HTML, Engineering Development in an FDA regulated environment, Embedded Windows, high speed data acquisition, image processing, 3D transformations, MRI.

**Some Experience with:** Active-X/OLE, Sonet/SDH, MFC, .NET, C#, Java, JavaScript, XSLT, Cryptography (Symmetric and Public Key), Postscript, IEE802 Ethernet protocols, Lisp, UML, SQL, ODBC, Relational Databases, GIT, web development.

**Education:** Bachelor of Science Cum Laude from Northeastern University in Electrical Engineering.

# GE Healthcare, Healthcare Systems: 2009 to Present (GE Acquired ONI)

Software Architect / Technical Lead

Technical Lead for Specialty MRI Products Software Development

* Responsible for the continuing development of the specialty MRI products that were acquired from ONI Medical Systems. Technical lead, software architect and individual contributor.
* Drove the specification for next generation PCIe to MRI scanner hardware interface design developed by a team in Bangalore, India. Developed Windows driver code and interface design for this hardware. Carried out hardware/software integration. Worked with the FPGA developer in Bangalore to locate and address issues with the FPGA/Driver integration and develop tool code to diagnose internal FPGA issues. Adapted the main user mode scanner service code to integrate this new hardware into the existing MRI scanner software as a demand loaded plug-in. Implemented these software changes and integration with the new hardware is in progress.
* As software technical lead I have been involved in most activities that the software team has undertaken and acted as fall back for particularly difficult software issues. I have been involved to varying degrees in the software release cycle and training and mentoring the other engineers on the team.
* Redesigned the core MRI scanner service code for substantially greater concurrency and more flexible run-time loading of core components.

# ONI Medical Systems Inc: 2005 to 2009

Principal Software Engineer / Technical Lead

Technical Lead and Software Architect for all MRI Scanner Software Development

* Overall responsibility for the technical integrity and direction of the development of software for ONI’s MRI scanner products. Technical lead for a small team of software engineers. Extensive software development in C++ on the XP embedded platform involving both refactoring of existing code and significant evolutionary extensions of that code both as a direct contributor and as the lead providing direction to the rest of the development team. The software platform for ONI’s MRI scanner involves a wide range of components from high speed data acquisition code with tight recursion intervals and mathematically intensive image reconstruction algorithms to Dicom medical image networking and a full windows user interface.

# Groove Networks Inc: 2003 to 2005

Principal Software Engineer / Technical Lead

Technical Lead for the Enterprise Integration Server (EIS) Product

* Technical lead for EIS at Groove. The EIS product allowed large enterprises to automate connections between Groove’s enterprise peer to peer client products and existing in-house information infrastructure. Coming on board as the technical lead for this product I needed to become familiar with Groove’s platform infrastructure and the EIS framework that is built on top of it. This code-base contains more than six million lines of highly customized COM/ATL C++ code and supporting JavaScript. This is a heavily threaded server communicating over encrypted socket connections and expected to have high availability in a corporate enterprise environment.

# Tektronix Inc and Digital Lightwave Inc: 2000 to 2003

Software Architecture Lead.

Software Architecture Lead for the OTS9000 Test System Product Line

* Architecture lead and individual contributor for the software platform of the OTS9000 optical networking test product line.
* Heavily threaded COM based infrastructure with an NT service hosting in-process components and custom kernel mode drivers to manage the instrument modules, a DCOM remoteable user-interface hosting ActiveX controls to provide interactive control and a separate modular SCPI interface process providing automated control capability. Total system contains more that 800, 000 lines of C++ code.
* Evolved Windows NT/2000 based software architecture for a compact PCI based modular test instrument from supporting one set of modules developed by one team in a single location to support five development teams in three widely separated locations while successfully releasing seven major versions of the system. Modules developed by the various groups are interchangeable as needed by the customer.
* Provided training and mentoring to the rest of the development teams on both platform issues and broader software technologies and techniques.
* Managed two direct reports who worked on the software platform. Gathered initial requirements, developed project charter and implementation plan and coordinated work on the software platform with ongoing development by the module development teams.

# Xerox Inc: Software Technical Lead.

Redesign of the Document Centre Core Software to Target Windows NT Embedded.

# Puma Technology Inc: Senior Software Engineer.

Outlook Translator Development for Intellisync.

# Howtek Inc.: Senior Software Engineer.

Windows NT Based Dicom-3 Medical Image Server:

Howtek Scanner Toolkit for Windows NT and 95:

Main Control Processor Firmware for SM2500/Pro-G/DX Flatbed Scanners:

Main Control Processor Firmware for the SM7500 Drum Scanner:

Main Control Processor Firmware for the D4000 Drum Scanner:

# GenRad Inc.: Digital Design Engineer

228x High Speed Test Set Sequencer Board

Test System Interface Board