

# RODGER HIGGINS

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Senior Software Developer and Engineer with longstanding experience leading the design and launch of software application products. Communicates with business and technical teams to identify product requirements and lead the development of new, innovative technology platforms. Has extensive technical management expertise in the development of communications architectures, application-driven services, and cloud-based computing solutions.

## AWARDS

*Verizon Progress Through Partnership Award* - VERIZON ONE

*Westell Most Innovative New Product Design Award* - VERIZON ONE

## PATENTS

**US PATENT 7,218,722:** System and method for providing call management services in a virtual private network using voice or video internet protocol.

**US PATENT 6,718,030:** Virtual private network system and method using voice over internet protocol.

**US PATENT 8,346,808:** System and Method of Accessing Resources in a Computer Network

## TECHNICAL SKILLS

**PROGRAMMING LANGUAGES:** Swift, Objective-C, C, C++, C#, Java, HTML5, CSS, SASS/SCSS, Javascript, Ruby

**PROCESSORS:** DSP, OMAP1510, OMAP2410, ARM, BSP

**OPERATING SYSTEMS & FRAMEWORKS:** Cocoa, Cocoa Touch, Core Animation, Rails, jQuery, Requirejs, Backbone.js, JavascriptMVC, OSGI, Java Web Server, Windows CE, Windows, MFC, Amazon EC2, 68000, MIPS, Intel X86

**COMMUNICATIONS PROTOCOLS:** TCP/IP, HTTP/HTTPS, XMPP, PPP, PPPoE, H.323, SIP, MGCP, HomeRF, 802.11, HomePlug, HPNA

**OTHER TECHNICAL EXPERTISE:** Patents, Patent Management, Patent Defense, Requirement Management, Vector-Clocks, Fountain Codes, Raptor Codes, Luby Transform Codes, Amazon Beanstalk, Grizzly, Glassfish, Tomcat, 3G, IMS, UMA

## PROFESSIONAL EXPERIENCE

SPAZSTIK SOFTWARE, LLC., Aurora, Illinois

January 2012 - Present

### **Founder**

- Oversee company strategy, technical architecture, and product concepts while leading all business operations.
- Architect and implement multiple versions of the company's web site that utilizes social media to provide a customer-oriented product development experience. This web site utilized Java and was deployed using Amazon Web Services.
- Designed, implemented and launched company's SPZTracker iOS application.
- Designed, implemented and launched company's StackCalc iOS application.
- Develop iOS and Android mobile applications that leverage data sharing over Amazon EC2.

## **PROFESSIONAL EXPERIENCE** *(Continued)*

WESTELL TECHNOLOGIES, INC., Aurora, Illinois

1994 - 2012

### ***Technologist/Chief Architect (2009 - 2012)***

- Managed the company patent portfolio, participating as a corporate strategist and architect during the advanced development of software products and solutions.
- Collaborated with engineering and patent attorneys to guide technology patent applications through the patent process, working with legal personnel to create responses to the USPTO office actions.
- Helped to formulate the product development strategy and architecture of Homecloud, a product line of home communication systems designed to enable a seamless storage cloud and web based applications.
- Architected an Internet-based management system on the Amazon EC2 platform, which enabled remote access to the end-user's files through a persistent HTTP connection.
- Investigated the application of advanced error correction codes to facilitate the archival storage of files and data in the home.

### ***Technical Supervisor (2008 - 2009)***

- Supervised the design and implementation of an integrated Java-based application interface for the UltraLine series of routers; enabled the development of third-party software designed to provide home automation and surveillance applications on the UltraLine product.
- Coordinated the work of development teams and communicated with third-party software providers to determine the strategic direction of product design, implementation, and administration.

### ***Manager Systems Engineering (2007 - 2008)***

- Managed a team of six individuals and guided the adoption of a new requirements management package (CaliberRM), fulfilling an interim role directed at improving product development processes.

### ***Senior Staff Engineer (2004 - 2007)***

- Fulfilled all points of the product development life cycle, including requirements gathering, system specification and development, testing, implementation to production environments, and product launch.
- Coordinated and managed international software development initiatives with seven different customer businesses, three in India and one in Canada.
- Worked on the characterization of the impact of ADSL bit-errors on video being delivered over ADSL lines, and also architected the software for the Verizon One and Westell Media Terminal.
- Developed products that combined an ADSL gateway, a wireless phone base-station with multiple handsets, and an application platform with LCD screen and a touch pane; - constructing a platform for new services.
- Designed and implemented board support packages, including boot-loaders, flash drivers, OS startup code, LCD drivers, touch panel drivers, sound drivers, and networking drivers.

### ***Technical Supervisor (1999 - 2004)***

- Directed a team of 12 employees and contractors, leading all aspects of planning and scheduling while providing strategic direction of technical initiatives.
- Led the development of an experimental project designed to lay the foundation of ADSL modem products at Westell; created the Access-4000, an ADSL modem that supported numerous physical networks, including Ethernet, HomeRF, 802.11, HomePlug, and HPNA, VoIP, and VoATM for delivery of POTS services.
- Transitioned the technology from the Access-4000 to new ADSL products designed for a major North American RBOC, which resulted in winning a second North American RBOC with the first deployed NAT router product in the US.
- Delivered on-site customer support during product transition through customer testing lab, and also developed new product requirements and managed implementations.

## **PROFESSIONAL EXPERIENCE** *(Continued)*

*Project Engineer (1997 - 1999)*

*Senior Software Design Engineer (1995 - 1997)*

*Software Design Engineer (1994 - 1995)*

## **EDUCATION**

*Bachelor of Science, Electrical Engineering*

MICHIGAN TECHNOLOGICAL UNIVERSITY, Houghton, Michigan