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• Senior Software Engineer • Spectroscopy • Author

Work History and Accomplishments:

2011– Senior Software Engineer – Wasatch Photonics
<ul style="list-style-type: none"> ○ Dash Spectroscopy Software: Designed, built and maintained high performance customer facing spectroscopy applications for Windows, Linux and embedded systems. Responsible for the design, implementation and verification of Laser spectroscopy computing systems. Verified USB 3 devices through novel visualization and custom firmware. ○ System Integrator: Responsible for problem diagnosis and corrective action for hybrid electrical, embedded software, and host OS systems. Led the data collection, analysis and problem solving efforts for real-time laser spectroscopy and industry leading optical coherence tomography systems.
2009 – 2011 Advanced Engineering – Mustard Tree Instruments
<ul style="list-style-type: none"> ○ Software Engineer, System Integrator: Responsible for the design, implementation and verification of Laser spectroscopy computing systems. Led the development of OEM based and from-scratch spectrometer control software encompassing all aspects of system design. Developed software from device drivers to analytics and GUI design. System administrator for the company's total IT needs.
2001 – 2009 Software Engineer, Innovator, Systems Administrator - IBM
<ul style="list-style-type: none"> ○ Author, Innovator - IBM developerWorks: Demonstrated aptitude in a wide variety of programming languages and technologies, including Perl, C, JavaScript, encryption, user input and biometrics. More than 35 articles read by over 150 thousand readers worldwide. ○ Systems Administrator: Linux, AIX and Windows: Administrator of hardware and software systems for IBM's Central Customer Master System. Configured and administered dozens of systems in diverse geographical locations for a multi-national team supporting test and development efforts across multiple platforms.

Publications and Media Coverage: More than 35 IBM developerWorks articles and online interviews demonstrating innovative techniques with software and hardware. With over 150 thousand readers across the globe, these articles have been featured on NewScientist.com, CIO.com, Slashdot.org and other technology websites.

Patents: As a member of the Invention Development Team at IBM, I have created more than 15 patents on file, covering diverse subjects like: Improving automotive safety with RFID tags and readers; Knock data input using accelerometers; Passive radio frequency interference detectors to monitor traffic patterns. Biometrics, keystroke dynamics, multi-touch implementations, and others.

Education: B.S. In Information Technology from R.I.T. (Rochester Institute of Technology).