

Nathan Harrington

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Compassionate, capable and positive engineer with more than 2 decades of experience designing, implementing and adapting technologies to help achieve business goals. Proficient in desktop application development, systems integration and software disciplines to enable the next level of productivity.

2011– Senior Software Engineer – Wasatch Photonics

- **Software Engineer:** 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. Python, PySide/PyQt – test driven design and continuous integration of desktop applications with travis and appveyor.
- **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. Python, Embedded C, various instrumentation tools.
- **Web development and collaboration:** Creation and continual improvement of the customer facing spectrometer device management platform. Responsible for the market leading communication and distribution of device specific information for hundreds of unique devices. Python (Pyramid web framework), sqlite, zodb

2009 – 2011 Advanced Engineering – Mustard Tree Instruments

- **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

- **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).