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A Senior Software Developer with strong technical, problem solving and design skills, committed to quality and customer satisfaction with over 15 years of experience. A talent for analyzing difficult problems and finding unique innovative solutions.

- 15+ years of software development experience
- Experience in embedded software, iOS development (all versions of objective-c and Swift), network controlled professional broadcast equipment and web applications.
- Developed an innovative web based, embedded code generation system, allowing hardware developers to design the software for their embedded products via a web app which then generated the software in C/C++. *30 plus products were developed using the system.*
- Lead teams to successful completion of high priority projects.
- Strong problem solving, analysis and design skills. Ability to design and implement robust and efficient systems.
- Strong customer focus, whether the customer is a fellow developer or the end user. Dedicated to creating the product that will satisfy the customer.

Technologies

- Languages: C/C++, Objective-C and Swift, Javascript (ES6/Typescript), HTML5, CSS3, SQL etc.
- Networking technologies including: TCP/IP, UDP, HTTP, Ethernet etc.
- Experience with web control of embedded products as well as proprietary network protocol development.
- Extensive experience with the in-field update/upgrade process for embedded products.
- Embedded: PPC, ARM, 8051, iOS, VxWorks, WinCE, and no operating system.

Professional Experience

Uncomplicated Solutions Inc, Founder, Principal Software Developer **2009-present**

- All phases of iPhone and iPad development from product conception to submission.
- Development of all in house iPhone and iPad apps including:
 - [Ketologger](#) (Rated 4.9 on the Apple App Store with 220 ratings.)
 - [Smart Interval Trainer](#) & [Smart Piano Keyboard Interval Trainer](#)
 - [Coffee Run!](#), [Coffee Run Free!](#)
- Development of apps in collaboration with others:
 - [Hom methode](#) and [Hom methode Pro](#) plus various games no longer on the store.
- Unreleased Ruby on Rails application.
- Learning: Elixir, Phoenix, Angular, Docker, Kubernetes etc.
- Technologies: Xcode, IOS, Objective-C and Swift (all versions since 2008), Javascript, HTML5, CSS3, Ruby, Elixir, Phoenix

Microsoft, Software Development Engineer - Embedded

2006-2009

- WinCE system component design and integration for a Voice Over IP (VOIP) office phone.
- Collaborated on flash layout, booting, and in-field upgrade design and implementation.
- Diagnostics and application watchdog functionality.
- Worked with fingerprint sensor vendor Authentec (since purchased by Apple) to diagnose issues and then developed and implemented solutions.
- Diagnosed and fixed a difficult SPI/DMA issue with the fingerprint driver.

Leitch Technology International Inc., Senior Software Designer

1997-2006

- Lead a team to update and consolidate the control protocols on the company's modular platforms. This included embedded products and control clients as well as a desktop windows client. The project was of great strategic importance to achieve the goal of unifying the control of all products to one protocol.
- Selected and lead a small team to re-architect and re-implement the network control component for the Neo modular platform. This effort was completed in a very short amount of time improving robustness and reliability while significantly cutting image size and increasing performance. This line of products could not have been shipped without the completion of this project.
- Conceived, architected and implemented a system allowing for the computer aided design of embedded software for the company's high end professional broadcast modular platform. This allowed the hardware designers to develop the software for their products using a web application. The system generated c/c++ embedded code that ran the products. This made it possible for hardware developers to work independently and increased the quality and reliability of the software for 30+ products. Development time was decreased as well as adding homogeneity for the entire product line. Additional benefits included things like generation of always up to date product documentation based on product data in the database.
- Designed and implemented several different embedded web servers to control professional broadcast equipment.
- Many projects and tasks including embedded, desktop and web applications. Support of legacy equipment and new development.

Ryerson University, Teaching Assistant

1996 - 1998

- Operating Systems, Introductory Computer Science (Scheme) and C courses.

Education

- Bachelor of Science, Applied Computer Science, Ryerson University 1994-1998
 - Thesis: Designed and implemented a shopping cart system before they were common place using CORBA/JAVA/JDBC/ODBC/SQL/HTML/CGI.
- Certificate of Bilingualism, French Immersion Program, Runnymede Collegiate Institute, 1990
- Certificate, Electronic Hardware Design, NAICS (North American Institute of Computer Systems), 2002

Languages

- English, French, Polish.