

Full stack: from circuit design to CSS. Bootloader to React. Database to Kubernetes.

Career Highlights

- Very early employee or cofounder at 4 startups
- 30+ years of Unix and programming experience
- Video game in assembly language sold to distributor at 14 years old
- 14 function motor controller in 4KB Rom and 53 bytes RAM
- Ported Linux and bootloader to poorly documented Japanese ARM SOC
- Lead maintainer of popular open source web framework
- Bare metal Kubernetes GPU multi-cluster
- Ported git to OSX
- Electronic Engineering degree with distinction.

Multiple years of experience in

- Ansible, ARM & 68K Assembler, AWS, Autocad
- Bash
- C, C++, CGI, CSS
- Docker
- Embedded
- GCP, Git
- HTML
- JQuery, Java, Javascript, Jenkins
- Kubernetes
- Labview, Linux Drivers, Lisp
- Make, Mentor Graphics, MongoDB, MySQL
- NGinX, Node.js
- PostgreSQL
- Rails, Redis, Ruby, Rust
- SIP, SPICE, SQL, SQLite, Scheme, Selenium, Sh
- TCL, Typescript
- U-boot
- VHDL
- 8 bit Assembler (6809, 68HC11, 8051, ...)
- Stack Overflow
- GitHub
- LinkedIn

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Threekit	<i>Senior DevOps and Software Engineer</i> <i>Online 3D Modelling Software</i> <ul style="list-style-type: none">• Led DevOps team• Built a multi-site bare metal Kubernetes cluster with GPU support• Designed core storage mechanism• Javascript, Typescript, ES6, Node.js, WebGL, V-Ray, Operational Transforms, HTML, CSS, Backbone.js, React, Mongo, Redis, nginx, Ansible, Docker, Jenkins, beanstalkd, statsd, AWS, Vagrant, Kubernetes	2012-2022 Ottawa
Barquin	<i>contractor</i> <i>NIFA web applications</i> <ul style="list-style-type: none">• Ruby, Rails, Javascript, jQuery, Selenium, SQL, MySQL	2009-2013
Hobo, hobo-jquery	<i>maintainer</i> <i>popular open source web framework</i> <ul style="list-style-type: none">• core developer and release manager• Ruby, Rails, Javascript, prototype.js, jQuery, selenium, SQL, MySQL, SQLite, git	2009-2013
Magor Corporation	<i>contractor</i> <i>Phone based control panel software</i> <ul style="list-style-type: none">• Javascript, Groovy, Java, HTML• JETTY, SIP, Mitel	2008 Kanata, Ontario
Lumenera Corporation	<i>Senior Software Engineer</i> <i>Ethernet IP Video Cameras</i> <ul style="list-style-type: none">• Solely responsible for software design and implementation based on customer's rough specification and interaction• Led the team responsible for software maintenance• Assisted with hardware design• Designed and deployed initial software design process and infrastructure• Ported Linux to ARM SOC• Power on Self-Test design and implementation• Manufacturing System Test and Customization design and implementation• Worked with manufacturer to ensure reliable production• First employee: wide variety of business experiences, including hiring, firing, customer interaction, financial modelling, assembling• C, Javascript, HTML, sh, Python, ARM & 68K assembler, C++, make• JPEG, motion-JPEG, MPEG, EXIF, TIFF• Linux Kernel and Drivers, U-Boot, CGI, XML-RPC, AJAX, Boa (web server), RTP/RTSP, NTP, zeroconf, ActiveX, HTML, XHTML, CSS, Twisted• Bugzilla, Subversion, TWiki, PyUnit, CUnit, MySQL, Apache	2002 - 2006 Ottawa, Ontario

Analog Design Automation (currently Synopsys)	<i>Senior Software Engineer</i> <i>Analog Integrated Circuit Synthesis and Optimization Software</i> <ul style="list-style-type: none"> • Responsible for initial design and implementation of Parts Library • Responsible for integration with Cadence Analog Artist • Led small team in an Extreme Programming development of a Synthesis Prototype • C++, Python, TCL, CORBA, LISP • Cadence Analog Artist, SPICE 	1999 - 2002 Saskatoon, Saskatchewan and Ottawa, Ontario
Vitana Corporation (DBA Pixelink)	<i>Senior Software Engineer</i> <i>IEEE-1394</i> <ul style="list-style-type: none"> • Solely responsible for design and implementation of an embedded IEEE-1394 stack • Project lead and customer interface for design of airline set top box • C, 8051 assembler 	1998 - 1999 Ottawa, Ontario
Newbridge Networks (currently Alcatel-Lucent)	<i>Junior Hardware Engineer</i> <i>Time Division Multiplexing</i> <ul style="list-style-type: none"> • Responsible for implementation of Data Multiplex FPGA and Glue Logic FPGA • VHDL, Schematic Capture • Mentor Graphics 	1997 - 1998 Ottawa, Ontario
Co-op Jobs for Kipp & Zonen, Ricoh, SED Systems, Environment Canada	<ul style="list-style-type: none"> • 8051 assembler, C, C++, FORTRAN, Visual BASIC • Labview, COM, OLE, DLL, MFC, Watcom 4G • HP-UX, OS/2, MS-DOS, Data General AOS/VS 	1993 - 1997
T&D Software	<i>Freelance Designer</i> <i>Video Games</i> <ul style="list-style-type: none"> • Design and Implementation of Video Games • 6809 Assembler, BASIC 	1987 - 1990 Holland, MI
Education	<ul style="list-style-type: none"> • University of Regina, 1997, Bachelor of Applied Science in Electronic Systems Engineering, Honours 	