

# Sarah Rosanna Busch

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## Skills and Attributes

*javascript*  
*node*  
*json*  
*html*  
*css/scss*  
*svg*

*creative*  
*curious*  
*smart*  
*hard working*  
*friendly*  
*team player*

## About Me

I am a software developer whose expertise is primarily in custom web-based user interfaces for embedded systems. I changed career paths from chemistry six years ago, because software development is the perfect fit for my creativity and analytical thinking. I have a passion for learning and developing new skills, and like to work independently within a collaborative team to produce a quality product. You can check out some of my code at <https://github.com/sarahRosannaBusch>, which is mostly school projects and experiments, plus a site I'm currently working on: [centripetalphotography.com](http://centripetalphotography.com).

I'm originally from Ontario, and have lived in Victoria since 2009, where I love to cycle, kayak, drink beer, and play boardgames with my friends. Feel free to follow me on [facebook](#) or [instagram](#) if you want to learn a little more about me.

## Current Employment

- **UI Developer** - [Quester Tangent](#), Saanichton BC (2017-present)
  - Primary responsibilities include software design, implementation, and oversight of front-end development for on-train monitoring and control systems and passenger information systems, based on a combination of graphic designs, wireframes, and functional requirements
  - Design and develop a configurable, modular, testable, and extendable web UI framework for touchscreen and desktop, that can be translated to any language and logs all user interactions, including its node.js server and API
  - Define and document data structures, requests, and commands, passed between the UI and native C/C++ application along with supporting unit tests
  - Plan and assign tasks for 3-5 developers in a typically two-week sprint cycle using JIRA, in support of regular software release targets, and in coordination with team leads for the rest of our twelve person application team
  - Participate in rigorous code reviews using Perforce Helix and Swarm, and ensure promoted commits fulfill their requirements and are ready for testing and release
  - Support development, maintenance, and release of all software products/projects at any stage of their lifecycle, as needed
  - Mentor and train junior developers and co-op students as the resident javascript expert
  - Contribute to software documentation according to IEEE standards, and help maintain our internal wiki

## Education

- **Electronics and Computer Engineering Technology Diploma** - [Camosun College](#), Victoria BC (2014-2017)
  - Constructed electronic devices and circuits with embedded environments; learned many programming languages including C, C#, C++, HTML/CSS/Javascript, VHDL, LabView, and Assembly; used a wide variety of development environments and debugging tools including *Visual Studio*, *Quartus*, *Eclipse*, *CubeMX*, *MPLab*, *Arduino*, and *Particle*
- **Chemical Engineering Technology Diploma** - [Seneca College](#), Toronto ON (2005-2009)
  - Studied the fundamentals of theoretical chemistry, and practiced analytical lab techniques and chemical instrumentation
- **High-School Diploma** - *Fort Frances High-School*, Fort Frances ON (1999-2003)
  - Honor roll, french immersion, band, drama club, volleyball

## Past Work History

- **Teacher's Assistant and Lab Prep Tech** - [Camosun College](#), Victoria BC (2015-2017)
  - Assisted with the TEAC course for high school students and helped the prep room staff when they were short handed
- **Electronics Service Technician (Co-op)** - [Forest Technology Services](#), Victoria BC (2016)
  - Serviced and repaired fire-weather sensors using high-reliability soldering techniques and basic programming skills, according to ISO standards; met tight deadlines
- **Chemist** - [Axy's Analytical Services](#), Sidney BC (2009-2013)
  - Prepared environmental samples for ultra-trace analysis, including homogenization, extraction, and chromatographic columnning; trained and supported new employees
- **Chemist (Co-op)** - Ontario Ministry of the Environment, Toronto ON (2007)
  - Prepared environmental samples for analysis of persistent organic pollutants, including homogenization, extraction and chromatographic columnning
- **Chemist (Co-op)** - Experchem Laboratories, Toronto ON (2006)
  - Performed quality assurance analysis on pharmaceutical products
- **Casual Labourer** - TLC Builders, Student Works, others (2003-2017)
  - Carpentry, painting, etc.