

# Eric Mikulin

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## EDUCATION

### U. OF BRITISH COLUMBIA

BASc IN COMPUTER ENGINEERING

MINOR IN COMMERCE

Expected May 2021 | Vancouver, BC

### SIR WINSTON CHURCHILL HS

INTERNATIONAL BACCALAUREATE CURRICULUM

Grad. June 2016 | Calgary, AB

## LINKS

Github:// [erismik](#)

LinkedIn:// [ericmikulin](#)

Devpost:// [ericm99](#)

## COURSEWORK

### UNDERGRADUATE

Software and Hardware Principles

Operating Systems

Hardware Programming

Digital and Analog Circuits

Unix Tools and Scripting

## SKILLS

### PROGRAMMING

Fluent:

C • C++ • Java • Python

Django (Python) • Javascript • Bash Shell

Proficient:

HTML/CSS • Ruby/Rails • Assembly

Verilog • Wiring • Rust

Familiar:

iOS (Swift) • Android (Java) • MySQL

### OPERATING SYSTEMS

OSX • Windows

GNU/Linux:

Ubuntu • Arch • Yocto • OpenSuSE

# EXPERIENCE

## D-WAVE | SYSTEMS SOFTWARE CO-OP

May 2018 -> Present | Vancouver, BC

- Created automated docs website publishing pipeline with Terraform and Jenkins, saving time by completely automating a long manual build process
- Wrote API endpoints in Django backend to add critical functionality
- Created a large number of relevant django unit tests alongside endpoints that increased test coverage and reduced the number of regression bugs introduced into continuous integration
- Created multiple frontend views using React framework
- Wrote and maintained backend integration with Zendesk and Salesforce that allowed for the Business Team to access new leads and generate reports

## NOVAX | SOFTWARE PROGRAMMER (CONTRACT)

Oct 2017 -> Mar 2018 | Vancouver, BC

- Wrote C userspace drivers in embedded system for i2c gpio and sd card
- Python and Bash scripting, to increase the capabilities of the embedded system
- Updated XML configuration library, to be faster and more robust, as well as align with new specs
- Created Yocto recipes and layers for embedded device, to improving time deploy to embedded devices during development

## MINESENSE | SOFTWARE INTERN

May 2017 -> Aug 2017 | Vancouver, BC

- C/C++ Application development and maintenance for embedded system
- Rewrote existing C++ code into object oriented C++ classes that improved embedded system performance and time to integrate new features
- Wrote kernel module to expose application settings in the proc filesystem, saving embedded system configuration time and complexity
- Created Yocto recipes and modified recipes to integrate with new build system, reducing time to configure builds into a single configuration line
- Created web based remote testing and install application, turning 30 minute or longer manual processes into simple automated tasks and preventing human error

## MINESENSE | SOFTWARE INTERN

Jun 2016 -> Aug 2016 | Vancouver, BC

- Created Unix shell and Python scripts for use in embedded system
- Manually patched and compiled Linux kernel with real time and custom patches, to improve IO throughput of embedded system
- Modified kernel init and initramfs to boot with overlayfs (Union filesystem), to improve embedded system robustness and reliability during frequent unexpected power cuts

## MINESENSE | SOFTWARE INTERN

Jun 2015 -> Aug 2015 | Vancouver, BC

- Created a Python unittest framework using python unittest and fabric to test on remote systems, saving developer time by allowing remote testing from local machines
- Setup and integrated unittest framework into Jenkins for continuous integration, improving testing coverage by automating manual testing tasks

# AWARDS / QUALIFICATIONS

## QUALIFICATIONS:

2017 Basic w/ Honours Canadian Amateur Radio License

## AWARDS:

2018 Best use of AWS, et al. NW Hacks 2018, University of British Columbia  
2017 Best Domain NW Hacks 2017, University of British Columbia  
2016 2nd place Calgary Collegiate Coding Competition, U. of Calgary

# CLUBS AND DESIGN TEAMS

2018 UBC UBC Unmanned Aircraft Systems  
2017/2018 UBC UBC Code The Change  
2016/2017 UBC UBC Baja Team