

## SKILLS

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**Programming:** Python (Scripting), Java (& Android), C/C++ (OOP), JavaScript, HTML/CSS, ARM64 Assembly, SystemVerilog, G-code

**Hardware:** Arduino/Raspberry Pi (Microcontroller/Embedded), Drones, 3D Printing, Electronics/Circuits Soldering, Multimeter/Oscilloscope, FPGA

**Software Tools:** UNIX/LINUX, GitHub (VCS), Google Cloud, JetBrains IDEs, Quartus Prime, ModelSim, SolidWorks/Autodesk Inventor (CAD)

## EDUCATION

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**BASc, Computer Engineering, The University of British Columbia**

*Expected 2026-05*

## TECHNICAL EXPERIENCE

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### Vice President & Workshop Director

*VikingsDev, Burnaby, BC*

*2020-09 – 2021-06*

- Organized creation and presentation of workshops produced by the team
- Developed and presented Python Flask and beginner Python workshops
- Coordinated team affairs such as exec meetings and responsibilities

### Co-Founder & Vice President

*BNS Drone Club, Burnaby, BC*

*2016-11 – 2021-06*

- Taught students about how drones work, how to build them and how to fly them safely
- Created numerous presentations to teach about drone technology
- Organized funding from the PAC to buy drone equipment for educating 20+ members

### Electronics Tester and Dismantler

*Free Geek, Vancouver, BC*

*2017-07 – 2019-09*

- Verified functionality of graphics cards and computer peripherals
- Dismantled and sorted computers, laptops and other electronics

### Technology Assistant

*Aquilini Group - Pizza Hut Head Office, Vancouver, BC*

*2018-03*

- Set up Intel NUC POS LINUX servers for Pizza Hut restaurants
- Utilized drive cloning tools: PXE boot, HDD Bay

## PROJECTS

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### Legacy of North

*Personal Project, Burnaby North Secondary*

*2020-02 – Present*

- Filmed hundreds of locations using 360-degree photography
- Continuing to develop a website using HTML/CSS/jQuery to showcase footage in Google Street View style
- Collaborated with school staff to gain necessary permissions and resources

### Writing Robot

*Science Fair, Burnaby North Secondary*

*2017-10 – 2018-01*

- Designed and built a writing robot leveraging 3D printed parts and Arduino electronics
- Utilized various software: Inkscape, G-code, Arduino, Grbl-servo firmware
- Implemented electronics: Arduino, CNC Shield, stepper motors, servo motor

## OTHER WORK EXPERIENCE

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### Polling Clerk

*Elections Canada, Burnaby, BC*

*2019-09*

- Processed and recorded voters' information
- Counted and validated ballots after poll closing

### Fair Ambassador

*Pacific National Exhibition, Burnaby, BC*

*2019-08 – 2019-09*

- Patrolled and offered guest services in various locations
- Utilized radio communications to address situations