



JACOB CHISHOLM

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JACOBCHISHOLM1010@GMAIL.COM |

SKILLS

- Programming: Java, C, C++, Python, GCODE, COBOL, JavaScript, HTML, CSS, Git, PlatformIO, VHDL
- ModelSim/HDL Simulation
- 3D printing
- PlatformIO Library Management
- CAD (Fusion 360 / Solidworks)
- Certified in Cardiopulmonary Resuscitation (CPR)
- Certified Lift Truck (forklift) Operator
- Certified Pleasure Craft Operator
- Marine Travelift Operator
- Soldering + Electronics Design
- Teaching/Team Leadership

INTERESTS

- Programming
- Embedded Systems
- FPGA's
- HDL (Hardware Description Languages)
- Robotics and Mechatronics
- Skiing, Golf, Biking
- Computer Sensing Technologies
- Mechanical Automation
- Small Scale Communications Systems

EXPERIENCE (REFERENCES AVAILABLE UPON REQUEST)

LIFT OPERATOR • THUNDERBIRD MARINE, WEST VANCOUVER • 2022 – PRESENT

Learned how to operate a 25BFMII Marine Travelift, ConOLift, and forklift. Fully certified forklift and marine vessel operator. Responsible for lifting and relocation of marine vessels around the work yard.

DISHWASHER • TROLLS RESTAURANT, WEST VANCOUVER • 2019 – 2021

Learned basic food prep, responsible for cleaning all dishes, cutlery, glassware, and kitchen supplies, as well as the cleaning and maintaining dishwashing appliances.

EXTRACURRICULAR EXPERIENCE

ELECTRICAL TEAM CO-LEAD • FORMULA SAE, QUEENS UNIVERSITY • 2023 – PRESENT

Co-Lead of Queens University Formula SAE (Society of Automotive Engineers) Electrical Subteam. Currently working on designing the first ever Formula Electric vehicle designed and built by Queen's University.

ELECTRICAL TEAM • FORMULA SAE, QUEENS UNIVERSITY • 2022 – 2023

Part of Queens University Formula SAE (Society of Automotive Engineers) Electrical Subteam. Worked on CAL (CAN bus Abstraction Layer), and 2022 steering display project. Gained valuable experience working with STM microcontrollers.

ACCOMPLISHMENTS

- Chief Scouts Award
- Bronze Cross Lifeguarding Certificate
- Gr 8, 10 Honor Roll
- Gr 9, 11, 12 Honors with Distinction
- Dean's List (Queens University 1st year)
- VEX Robotics Think, Create, Build, Amaze Awards
- FIRST Robotics Innovation Award
- FIRST Robotics Regional Qualifier 2022 Champions
- Best Speaker and Tournament Champion of the 2021 Rockridge Debate Tournament

COMPETITIVE ROBOTICS • TEN TON ROBOTICS ACADEMY, WEST VANCOUVER • 2018 – 2022

Part of the West Vancouver Ten Ton Premiere Robotics Academy team competing in FIRST and VEX robotics competitions. Lead programmer for Team 1010V. Lead of Electrical, Pneumatics and Programming departments on 6364 FIRST Robotics team. Winner of Vex Robotics Think, Create, Build, Amaze and Tournament Champion Awards. Winner of FIRST Robotics Innovation award. Winner of First Robotics 2022 BC Regional Qualifier Event. Volunteered to set up, manage and operate provincial VEX robotics competitive tournaments.

ROCKRIDGE DEBATE CLUB • WEST VANCOUVER • 2017 – 2022

Part of the Rockridge Debate Club. Participated in many internal debates and two district wide debates. Winner of Best Speaker and Tournament Champion Award at the 2021 Rockridge Debate Tournament.

SCOUTS CANADA • WEST VANCOUVER • 2014 – 2021

Part of the 1st West Vancouver Scout troop. Recipient of the Chief Scout's award, the highest award achieved at the scout level. Volunteered at camps and meetings with younger age groups.

EDUCATION

QUEENS UNIVERSITY, KINGSTON - GRADUATION 2026

Currently enrolled in Queen's Electrical and Computer Engineering Program.

ROCKRIDGE HIGH SCHOOL, WEST VANCOUVER - GRADUATED 2022

Grade 12 courses include Computer Science 12, AP Computer Science, AP Statistics, AP English 12, AP Calculus AB, Law 12