

Brodie Gould

ELECTRICAL ENGINEERING UNDERGRADUATE STUDENT

abrodieg@gmail.com | 705.571.3404 | www.linkedin.com/in/brodie-gould | brodiegould.github.io | Victoria, BC

ACADEMIC QUALIFICATIONS

Electrical Engineering - Bachelor of Engineering (4th year)

2yr, May 2023

University of Victoria, Victoria, BC

Specialization in Computational Intelligence

- Past coursework includes Applied Cryptography, Mechatronics, Communication Networks, Numerical Analysis and Microprocessor-based systems. Current coursework includes Blockchain Technologies, Advanced Programming Techniques for Robust and Efficient Computing, and Artificial Intelligence

Electrical & Computer Engineering Bridge – Advanced Diploma

1yr, Dec 2020

Camosun College, Victoria BC

- Past coursework includes Data Structures & Applications, Programming for Engineers, Discrete Structures in Engineering, Probability & Statistics for Engineers, and Mathematics

Electrical Engineering Technology – Advanced Diploma

3yr, Sept 2018

Georgian College, Barrie ON

WORK EXPERIENCE

Automation and Design, Internship

4mo, May 2021 – Aug 2021

Barrie Welding & Machine, Barrie ON

- Worked in the Engineering team directly under the department lead solving design and programming challenges in an environment with fast deadlines

Electrical Design Technologist

13mo, Nov 2018 – Dec 2019

RF Binnie & Associates, Burnaby BC

- Worked in the Electrical Engineering team under the department head engineer, client-facing multiple simultaneous construction projects between customers, suppliers, engineers and contractors from bidding on new projects, to finalizing builds

SCHOOL PROJECT EXPERIENCE

- **Co-lead software engineer, Differential Cryptanalysis Attack:**
 - Cryptography final project where we successfully recovered a secret key from a private-key cryptography scheme like AES, programmed in Python
- **Lead software engineer, Mechatronics Efficient Assembly Line:**
 - Wrote iterations of lean and efficient code to run a scaled assembly line process to classify and sort objects as quickly as possible. In testing, we completed the challenge in 32 seconds, which lands in the top 3 groups; programmed in embedded C

SKILLS

- C
- C++
- Python
- HTML
- CSS
- Bootstrap
- Git
- MATLAB
- R

ACTIVITIES AND INTERESTS

- When I'm not studying, you can find me in the outdoors (hiking, cycling, motorcycling, climbing, surfing, skiing), travelling (South East Asia was my favourite), exercising, learning about programming and finance (Object Oriented Programming and Blockchain Technology), playing sports (hockey, squash, ultimate frisbee), and reading daily
- Active member in the University of Victoria's Investment Group, and the Cryptocurrency Group