BEN MAZEROLLE

📍 Victoria, BC

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EDUCATION

Bachelor of Software Engineering
University of Victoria

📅 Sept 2016 - April 2021 📍 Victoria, BC

☑ GPA: 8.37

COMPETENCIES

Programming: C, Java, Python, AVR Assembly

Lifecycle Management: Creating software testing procedures and updating existing tests, debugging and GDB debugging (ongoing)

Operating Systems: Linux Ubuntu and Raspbian, Windows, Arduino, FreeRTOS

Design: Solidworks 2016, Autocad 2003, Photoshop CS6

Engineering Tools: Microsoft Office Suite, Siemens Teamcenter PLM, Github, Trello, Syspro, and Google collaboration applications

Electrical Hardware: VEX, Tycrop trailer control box schematics and assembly

Web Development: CSS, HTML, JavaScript

Microcontrollers: Atmel ATMega 2560, VEX

ORGANIZATIONS

Student Member
EGBC

📅 September 2016 - Present

Volunteer Member
Rotary Interact Club

📅 September 2015 - June 2016

MOST PROUD OF

EXPERIENCE

Software Engineering CO-OP Student
TYCROP Manufacturing Ltd.

📅 May 2017 - August 2017 📍 Rosedale, BC

- Repartitioned software storage devices to optimize performance and size

- Reviewed and updated software testing procedures to reflect system changes

- Revised and created components using the SolidWorks 3D modelling software

- Gathered and published information to an internal database

- Collaborated with over 20 local and remote Engineers via phone calls, meetings, and remote desktops to design industrial equipment assemblies with CAD software

- Confirmed fittings, fluids, and structural components met industry standards

PROJECTS

Canadian Satellite Design Challenge
UVic ECOSat Team

- Researched Position Sensing Detectors to monitor satellite orientation
- Learning usage of FreeRTOS and Code Composer Studio to design satellite OS
- Learning usage of TMS570 microcontroller

Autonomous Cable Laying Robot
UVic Project for Ocean Networks Canada

- Wrote RobotC code for autonomous movement and task completion

- Designed and assembled electrical circuitry for the robot using VEX

- Created and implemented the robot's Finite State Machine

Losing 60lbs and my status as obese	**Winning the T.S. McPherson Entrance Scholarship**	**Making the Dean's List for Physics, Calculus, and Computer Science**
📅 August 2014	📅 May 2016	📅 December 2016
📅 March 2014	📅 December 2016	📅 November 2017
Travelling to Mexico to build a home for an impoverished family	**Winning the UVic Engineering Solar Energy Infrastructure design competition**	**Winning the $1500 BC Hydro - EGBC Scholarship**