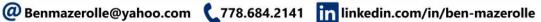
# BEN MAZEROLLE





# **♥** Victoria, BC

# **EDUCATION**

Bachelor of Software Engineering **University of Victoria** 

Fig. 1021 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** 



Volunteer Member Rotary Interact Club

🛗 September 2015 - June 2016

### **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

# **MOST PROUD OF**

Losing 60lbs and my status as obese Winning the T.S. McPherson **Entrance Scholarship** 

**May 2016** 

Making the Dean's List for Physics, **Calculus, and Computer Science** 

December 2016

March 2014

December 2016

m November 2017

August 2014