

# Kovasky Buezo

COMPUTER ENGINEERING, CO-OP STUDENT

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## Projects

### Killick-1 CubeSat

MISSION CONTROL SUBSYSTEM, TEAM LEAD

- A GNSS Reflectometry CubeSat for measuring sea ice, part of the Canadian Space Agency's Canadian CubeSat Project
- Designing and developing the on-board computer's flight software in C under the MISRA guidelines
- Designing and implementing software and hardware tests to ensure flight readiness
- Collaborating with 5 teams to draft design and test documentation for review by the Canadian Space Agency

St. John's, NL, Canada

Summer 2021 - Present

### Kafa - Thermostat Enhancer

1ST PLACE OVERALL, MAKEUOFT 2021

- MakeUofT is Canada's largest makeathon; 60 teams, 150+ participants in 2021
- Led the electrical and software design
- Created a plug and play thermostat enhancer, one that does not need installation nor guidance from an expert, that is expected to generate 23% of savings on annual energy costs
- Built using JavaScript, Python, Flask, MySQL, and Docker in under 800 lines of code

St. John's, NL, Canada

Winter 2021

### The Revengeance

BEST SUBMISSION, 4TH YEAR GAME PROGRAMMING COURSE

- Built a game from the engine up, using modern C++ and SFML2.1
- Implemented using an Entity-Component-System architecture allowing for great design flexibility
- Features include pathfinding algorithms, ray tracing, and the use of shaders

St. John's, NL, Canada

Fall 2020

## Skills

<b>Languages</b>	C++, C#, Python, JavaScript, Java, C, Assembly, Bash, VBA, Liquid
<b>Frameworks</b>	.NET Core, Flask, Jinja, JQuery, SFML, SDL, Qt, SWIG, Bootstrap
<b>Other</b>	Docker, Grafana, Portainer, Hyper-V, Windows, Linux

## Experience

### InnovMarine Inc.

JUNIOR PROGRAMMER ANALYST CO-OP STUDENT (RETURNING)

- Developed and maintained software solutions for the shipbuilding industry using .NET Core and Python
- Assisted in the design and implementation of the base architecture for current and future .NET-based projects
- Improved internal operation processes by developing a code documentation standard operating procedure

Lévis, QC, Canada

Fall 2021

### InnovMarine Inc.

JUNIOR PROGRAMMER ANALYST CO-OP STUDENT

- Developed and maintained software solutions for the shipbuilding industry using C#, SQL, and VBA
- Automated data analysis and workflow operations of 20+ people using VBA
- Improved the execution speed of current solutions by up to 18x faster (6662 down to 357 seconds)

Lévis, QC, Canada

Winter 2021

### Memorial University of Newfoundland

ENTREPRENEURIAL CO-OP STUDENT

- Worked towards the implementation of an importing business whose key mission is to bridge the gap between ethically sourced premium Honduran products and Canadians
- Developed a supply chain strategy that encompasses direct trade with producers and the transportation of goods from origin to end consumer resulting in 20% cost savings
- Defined a brand strategy that outlines the core values of the company's brand identity

St. John's, NL, Canada

Summer 2020

### Lester's Dairy Farm

PROJECT ENGINEER CO-OP STUDENT

- Carried out a pre-feasibility study for an anaerobic digestion facility and estimated a generation capacity of 360kW
- Performed mass balance calculations for a herd of 260 (mixed) milking cows
- Assisted in the planning and decision-making process in the design phase of the facility

St. John's, NL, Canada

Fall 2018

### Empire Electronics

MAINTENANCE ENGINEER CO-OP STUDENT

- Assisted in the designing of maintenance strategies, procedures and methods which reduced down-time to 3% and scrap production to 1%
- Carried out routine scheduled maintenance work and responded to equipment faults
- Diagnosed breakdown problems through the collection and analysis of on-site data

San Pedro Sula, CR, Honduras

Winter 2018

## Education

### Memorial University of Newfoundland

BACHELOR OF ENGINEERING, COMPUTER

St. John's, NL, Canada

Spring 2022 (Expected)