

# Kovasky Buezo

BACHELOR OF ENGINEERING, COMPUTER

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## Projects

### Multi-client MJPEG ESP32 Stream

Ottawa, ON

ESP32 BASED PROJECT USING ESP-IDF

August 2023

- Built a multi-client ESP32-based IP camera stream using ESP-IDF and C++20
- Used FreeRTOS, semaphores, notifications, and tasks to ensure efficient multitasking and synchronization within the system
- Integrated with HomeBridge, enabling seamless accessibility through Apple Home on any device with an internet connection

### Killick-1 CubeSat

St. John's, NL, Canada

MISSION CONTROL SUBSYSTEM, TEAM LEAD

Summer 2021 - Spring 2022

- A GNSS Reflectometry CubeSat for measuring sea ice, part of the 15 teams selected for the Canadian Space Agency's CubeSat Project
- Wrote 2000+ lines of C code for the on-board computer's flight software under the MISRA guidelines
- Designed and developed 30+ software and hardware tests to ensure flight readiness
- Collaborated with 5 teams to draft design and test documentation for review by the Canadian Space Agency

### Kafa - Thermostat Enhancer

St. John's, NL, Canada

1ST PLACE OVERALL, MAKEUOFT 2021

Winter 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

## Skills

### Languages

Assembly, Bash, C, C++, JavaScript, Python, VBA

### Frameworks

Bootstrap, Flask, Jinja, JQuery, Qt, SDL, SFML, SWIG

### Other

Ansible, Jama, Jenkins, Docker, Grafana, Portainer, Hyper-V, Vsphere, Windows, Linux

## Experience

### Frequentis Canada

Ottawa, ON

SOFTWARE ENGINEERING

November 2022 - Present

- Developing and designing time-critical applications for the air traffic management industry using .NET Framework
- Automating the testing, building and deployment of software packages using Ansible, Bash, and Jenkins
- Utilizing Jama to manage and document software requirements, ensuring effective communication and seamless collaboration across multiple teams
- Managing and maintaining network and hardware infrastructure

### InnovMarine Inc.

Lévis, QC, Canada

JUNIOR PROGRAMMER ANALYST CO-OP STUDENT (RETURNING)

Fall 2021

- 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

### InnovMarine Inc.

Lévis, QC, Canada

JUNIOR PROGRAMMER ANALYST CO-OP STUDENT

Winter 2021

- 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)

## Awards & Certifications

### Certified in Cybersecurity

Ottawa, ON

ISC2

October 2023

- Awarded the Certified in Cybersecurity credential, showcasing comprehensive knowledge and expertise in implementing advanced security measures and safeguarding critical digital assets against potential cyber threats

### 1st Place Overall

St. John's, NL

MAKEUOFT 2021

Winter 2021

- Won first place of Canada's largest makeathon with the submission of Kafa, plug and play thermostat enhancer

### Spark Fund Recipient

St. John's, NL

MEMORIAL UNIVERSITY CENTRE FOR ENTREPRENEURSHIP

Winter 2020

- Was awarded the Spark Fund, a fund for first-time student entrepreneurs at Memorial University

## Education

### Memorial University of Newfoundland

St. John's, NL, Canada

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Spring 2022