Kovasky Buezo

Computer Engineering, Co-op Student

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Projects

Killick-1 CubeSat
Mission Control Subsystem, Team Lead *St. John's, NL, Canada*
Summer 2021 - Present
- 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

Kafa - Thermostat Enhancer
1st place overall, makeUofT 2021 *St. John's, NL, Canada*
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

The Revengeance
Best submission, 4th year game programming course *St. John's, NL, Canada*
Fall 2020
- 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

Skills

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

Experience

InnovMarine Inc.
Junior Programmer Analyst Co-op Student (Returning) *Lévis, QC, Canada*
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.
Junior Programmer Analyst Co-op Student *Lévis, QC, Canada*
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)

Memorial University of Newfoundland
Entrepreneurial Co-op Student *St. John's, NL, Canada*
Summer 2020
- 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

Lester's Dairy Farm
Project Engineer Co-op Student *St. John's, NL, Canada*
Fall 2018
- 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

Empire Electronics
Maintenance Engineer Co-op Student *San Pedro Sula, CR, Honduras*
Winter 2018
- 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

Education

Memorial University of Newfoundland
Bachelor of Engineering, Computer *St. John's, NL, Canada*
Spring 2022 (Expected)