Kovasky Buezo

COMPUTER ENGINEERING, CO-OP STUDENT

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Projects

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

The Revengeance
St. John's, NL, Canada

BEST SUBMISSION, 4TH YEAR GAME PROGRAMMING COURSE
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

BytePusher VM
St. John's, NL, Canada

BYTEBYTEJUMP ONE-INSTRUCTION SET VIRTUAL MACHINE
Winter 2020
- Implemented a BytePusher Virtual Machine using Python and PyGame
- Rewrote the project in C++11 using SDL2 resulting in a performance increase of 13,333% (based on fps throughput)
- Connected both implementations through the SWIG compiler

Skills

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

Experience

InnovMarine Inc.
Lévis, QC, Canada

JUNIOR PROGRAMMER ANALYST CO-OP STUDENT
Winter 2021
- Developing and maintaining software solutions for the shipbuilding industry using C#, SQL, and VBA
- Automating data analysis and workflow operations of 20+ people using VBA
- Generating reports using the Power BI platform

Memorial University of Newfoundland
St. John's, NL, Canada

ENTREPRENEURIAL CO-OP STUDENT
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

Brewery Lane Mt. Pearl
St. John's, NL, Canada

ECOMMERCE DEVELOPER (PART-TIME)
Spring 2020
- Led the creation, direction and usability of the e-commerce website, *blmtp.com*, using Shopify's framework alongside Javascript, HTML, and CSS leading to an increase in sales of 3%

Lester's Dairy Farm
St. John's, NL, Canada

PROJECT ENGINEER CO-OP STUDENT
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
San Pedro Sula, CR, Honduras

MAINTENANCE ENGINEER CO-OP STUDENT
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

Sula Valley Biogas
Choloma, CR, Honduras

PLANNING ENGINEER CO-OP STUDENT
Winter 2017
- Assisted in the planning, budgeting and decision-making process of the largest biogas energy company in Central America
- Interpreted data from SCADA systems to create weekly graphs and reports pertinent to energy production and biomass consumption for the use of upper management
- Wrote the first plant operations handbook after becoming familiar with the production process

Education

Memorial University of Newfoundland
St. John's, NL, Canada

BACHELOR OF ENGINEERING, COMPUTER
Spring 2022 (Expected)