REBECCA CAROLAN

CONTACT INFO

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EDUCATION

Bachelor of Computer Engineering (Co-Op Program)
Memorial University, St. John's, NL
Sept. 2018 – Present

- Enrolled in Academic Term VII
- Expected Graduation Apr. 2023

PROGRAMMING LANGUAGES

- C++ / C
- MATLAB
- Java
- Python
- JavaScript
- React JS
- Terraform
- VHDL
- Assembly
- Visual Basics
- Dafny

WORK EXPERIENCE

Software Developer Co-Op – Cloud Automation
Verafin | Sep. 2022 – Dec. 2022

- Developing software to act as a warehouse data collector to manage queries of customer data.

System Engineering Software Assurance Student
Irving Shipbuilding Inc | Jan. 2022 – Apr. 2022

- Developed the Software Requirements Review Strategy which outlines the methods to assess the readiness status of developmental software
- Coordinated with subcontractors to align on a plan for completing the Preliminary Design Review Phase of the project for software products
- Created a strategy to define a safe system of work to manage radiation hazards related to the ship

System Engineering Security Student
Irving Shipbuilding Inc | May. 2021 – Aug. 2021

- Managed customer cybersecurity concerns by researching and compiling evidence in support of our internal processes.
- Streamlined internal communications by clearly documenting the alignment and hierarchy of stakeholder groups.
- Derived cybersecurity requirements from standards to allow traceability in vendor design

System Engineering Certification Student
Irving Shipbuilding Inc | Sept. 2020 – Dec. 2020

- Created guidance documents for various areas of certification to define the scope and identify any gaps in the references
- Presented proposed resolutions to areas of concern in certification to senior managers to develop a plan forward
- Consulted with subjected matter experts to clarify certification requirements

Certification Engineering Student
Canada-Newfoundland and Labrador Offshore Petroleum Board
Apr. 2019 – Aug. 2019 & Jan. 2020 – Apr. 2020

- Performed technical reviews of Regulatory Query applications and provided the Chief Safety Officer with recommendations for approval
- Reviewed technical documents related to new rig intakes, new installation builds, and aging facility life extension plans to ensure regulatory compliance
- Assessed and gathered documentation to be used as evidence for complex certification problems for an offshore facility.

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TECHNICAL SKILLS

- AWS
- GitHub, Git, DevOps
- Linux
- Concurrent Programming
- OrCAD Pspice Circuit Simulation
- Proteus Hardware Modelling
- Quartus FPGA Board Simulator
- MATLAB & ModelSim
- Raspberry Pi Development
- ClassicLadder PLC
- Solidworks
- AutoCAD
- Microsoft Office Applications

CERTIFICATIONS

- Red Cross Standard First Aid
- AutoCAD Certified User
- SolidWorks Associate Mechanical Design Certificate
- Canadian Coast Guard Search and Rescue Seminar
- Lean Six Sigma White Belt
- Valid Driver's License
- IEEE Student Member

INTERESTS

- Raspberry Pi
- Arduino
- Programming
- Control Systems
- Hardware Design
- Communication Systems
- Defense and Aerospace

EXTRA-CURRICULAR

Treasurer

IEEE Student Branch | Dec. 2021 – Present

- Responsible for managing the branch's finances
- Coordinate and plan events with the other branch executives.

Software Team

Paradigm Hyperloop | Sept. 2019 – Jan. 2020

- Assisted in writing code to go on the team's pod submission to race as part of SpaceX's hyperloop competition.

PROJECTS

RescueAI – Automated Search and Rescue Drone

- Capstone Project – Developing software to control a Parrot AR drone for search and rescue applications
- Utilizing computer vision to detect humans from drone's camera
- Automating drone's flight path to follow search patterns

YUMI – Door Dash Clone

- GUI Team lead, coordinated 6 developers on my team
- Class project practicing Agile design consisting of 40 developers
- Developed the frontend of application using React JS
- Used GitHub for version control

Dungeon.io – Dungeon Crawler Game

- Developed a 3-level game using Java with a friend
- Used GitHub for version control

AWARDS & SCHOLARSHIPS

- Dean's Award for Outstanding Presentation - 2021
- Ray Bonia Memorial Scholarship - 2017
- Centenary of Responsible Government Scholarship - 2017
- Memorial University Entrance Scholarship - 2017
- Duke of Edinburgh Gold Award - 2017
- Canadian Chemistry Contest 2017 - 1st Place NL