Favour Olotu

Software Engineering, B.Eng

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Bachelor of Software Engineering graduate with 3+ years of experience designing and implementing complex software architectures across multiple platforms, including embedded systems and sensor fusion in robotics.

SUMMARY OF QUALIFICATIONS

- Dynamic software developer who utilizes teamwork, creativity, and technical expertise to develop user-centric products in fast-paced environments
- Skilled in developing and integrating embedded systems for autonomous vehicles, utilizing Robot Operating System (ROS) and Data Distribution Service (DDS) within a Linux environment
- Proficient in solving complex technical problems by applying debugging processes to identify and eliminate semantic and syntaxial errors in programs
- Great experience working with collaboration tools like Atlassian (JIRA, Bitbucket, Confluence)

EDUCATION

Bachelor of Engineering, Software Engineering, Co-op Option   April 2018 – April 2023
Carleton university, Ottawa, ON
- Carleton Entrance Scholarship Recipient
- J. Lorne Gray Scholarship Recipient

Diploma, Mechanical Engineering Technician   September 2016 – April 2018
Sault College, Sault Ste Marie, ON

PROFESSIONAL CERTIFICATES

Google Cybersecurity Specialization
Google, December 2023
- Acquired skills in threat detection and mitigation, network security, and vulnerability assessment
- Gained hands-on experience with cybersecurity tools and techniques

SKILLS & OTHER

Programming: C\C++ | Java | Python | Bash | JavaScript | PHP | HTML | REST APIs | CSS | SQL | Go | Dart | React

Operating Systems: Unix | MacOS | Windows | Linux

Development Environment: VSCode | BlueJ | IntelliJ | Eclipse | Flutter | PyCharm | CLion

Other Technologies: Git | AWS | ROS | Webots | Docker | Spring Boot | Jenkins | YAML | JIRA | Slack | MS Teams

WORK EXPERIENCE

Robotics Software Engineering   May 2023 – Present
Four DRobotics Corp, Ottawa, ON
- Created configuration profiles for software defined MANET Radios used for long range wireless communications
- Developed a software program for fusing data from a RADAR with that of a camera using the extended Kalman filter adding to the perception sense of an autonomous vehicle to facilitate object tracking using C++
- Developed distributed architectures using DDS (Data Distribution Service) for different systems on a robot to enable them to communicate and share data using the publish-subscribe model in C++
- Implemented OpenDDS wrapper, code generators libraries based on OMG standards for simplification of OpenDDS usage and documented the process.

Software Engineering Contractor   September 2022 – April 2023
Four Dobotics Corp, Ottawa, ON
- Integrated object classification into a webot simulation to aid in rapid prototyping development
- Implemented local and global slam for the autonomous vehicle with the help of Google's cartographer using a LIDAR, IMU and odometer
- Conducted a trade survey to evaluate radar technologies, analyzing systems by specs, capabilities, applications, range, resolution, power, size, and cost

Software Engineering Coop   April 2022 – August 2022
Four DRobotics Corp, Ottawa, ON
- Developed software for sensor integration, sensor data fusion and mission planning for an autonomous vehicle as part of small software team using python and C++
- Trained deep neural networks for specified object detection using YOLO and designed a program for real-time object detection with C++
- Created, tested and integrated an OCR (Optical Character Recognition) program into an object classification program for identifying numbers on a speed limit sign using C++

IT Operations Infrastructure and Engineering   January 2021 – December 2021
Innovapost, Kanata, ON
- Implemented an invoice processing program using Java, that integrated information from over a dozen monthly invoice files to look for inconsistencies and to give a comprehensive summary costs per server for data centers with thousands of servers
- Developed a Java data centre simulator to support contract management and the development of data centre strategy
- Performed a time series data analysis to evaluate the current use of capacity for each server and to make appropriate sizing recommendations and to identify servers that have had increased use of capacity for each server in the data centres

Teaching Assistant   September 2020 – Apr 2023
Carleton University, Ottawa, ON
- Educated students during virtual lab and in person lab sessions on how to develop programs, bridging the gap between the theory and proper application of the theory while developing programs
- Provided tactical and constructive feedback to labs submitted by students to ensure they understand why marks were removed and why the lab solution is more effective