

# Favour Olotu

## Software Engineering, B.Eng

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Bachelor of Software Engineering new graduate with 2+ years of experience designing and implementing complex software architectures in multiple languages across multiple platforms, including embedded systems and sensor fusion in robotics.

## SUMMARY OF QUALIFICATIONS

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- Over 3 years' experience in Software Development and Engineering outside education
- Software programming skills include: - Java, Kotlin, Android, C#, JavaScript, HTML, CSS, Embedded Software with C, Arduino, C/C++, Git, SQL, Python, Dart.
- Autonomous System development using ROS and DDS
- Extensive UI/UX skills include Designing UI with Java, python and Figma
- Great experience working with collaboration tools like Atlassian (JIRA, Gitlab, Confluence)
- Proficient knowledge of Unix
- Excellent analytical and problem-solving skills, and ability to tackle any urgent situation
- Enthusiastic, motivating and ability to pay attention towards the details
- Good at understanding recent technologies
- Ability to multi-task, and use creative and innovative skills
- Good understanding of programming roles

## WORK EXPERIENCE

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### Robotics Software Engineer

May 2023 – Present

Four DRobotics Corp, Ottawa, Ontario

- Configured and created configuration profiles for Software Defined MANET Radios used for long range wireless communication
- Developed a software for fusing data from a RADAR with that of a camera using the extended Kalman filter to add to the perception sense of an autonomous vehicle in order to perform object tracking using C++
- Development of distributed architectures using DDS (Data Distribution Service) for different systems on a robot to enable them communicate and share data using the publish-subscribe model in C++
- Implemented OpenDDS wrappers, code generators libraries based on OMG standards for simplification of OpenDDS usage and documented the whole process

### Software Engineering Contractor

September 2022 – April 2023

Four DRobotics Corp, Ottawa, Ontario

- 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 data
- Researched into automotive RADARs such that the data collected matches the use case for an autonomous patrol vehicle

## Software Engineering Coop

April 2022 – August 2022

Four DRobotics Corp, Ottawa, Ontario

- 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++
- I created, tested and integrated an OCR (Optical Character Recognition) program into an object classifying program for identifying the numbers on a speed limit sign using C++

## IT Operations Infrastructure and Engineering

January 2021 – December 2021

Innovapost, Kanata, Ontario

- Implemented an invoice processing program using Java, that integrated information from over a dozen monthly invoices to look for inconsistencies and to give a comprehensive summary costs per server for data centers with thousands of servers
- Developed a data centre simulator to support contract management and the development of data centre strategy using Java
- Performed a time series data analysis to evaluate the current use of capacity for each server and to make right 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, Ontario

- Educated Students during virtual lab and in person lab sessions, on the proper applications of the theory learnt in class into writing programs, to bridge the gap between the theory and proper application of the theory while designing programs
- Provided tactical and constructive feedback to labs submitted by students to ensure they understand why marks were removed and a more effective solution to the lab

## EDUCATION

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### Bachelor of Engineering, Software Engineering, Co-op Option

September 2018 – April 2023

Carleton university, Ottawa, ON

### Diploma, Mechanical Engineering Technician

September 2016 – April 2018

Sault College, Sault Ste Marie, ON

## SKILLS & OTHER

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**Management Utilities:** Scrum, Agile, Slack, JIRA, Source Versioning

**Techniques:** Problem Analysis, Product Development, Process Optimization

**Tools and Frameworks:** Java, Kotlin, C#, JavaScript, HTML, CSS, Embedded Software with C, C/C++, Git, SQL, Python, Dart, AWS, ROS, Webots, PHP, UNIX, Flutter, Docker