Oluwatoni Ogunmade

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Technical Skills

- C/C++, Python, Java
- ROS and Linux (introductory)
- CNC router & 3D printing
- Android via Android Studio (introductory)
- Arduino, Beaglebone Black
- SolidWorks, EagleCAD, AutoCAD, CAM software

Work Experience

Robotics Engineer — Solus Robots — April 2015 – September 2015

Solus Robots is start-up focused on building humanoid robots for the marketing and service industries

- Designed the pan and tilt unit with **SolidWorks** and manufactured it using a **CNC router** and a **3D printer**
- Built the **Arduino** code that controls the arms and pan and tilt unit based on the commands received in **C++**
- Implemented **Arduino** code to receives position messages from the on board computer and send diagnostic messages

Projects

ScanTRON 2019: Multiple choice marking robot — Nov 2014

- Programmed a robot to mark multiple choice answer sheets and record individual student grades in **RobotC**
- Served as the project manager and succeeded in ensuring that deadlines were met

University of Waterloo Robotics Team: Robot Racing — Sept 2014-present

- Implemented **Arduino** code that enables the **ROS** powered autonomous car to be remotely controlled in **C++**

4 wheeled robot platform — July 2015 - present

- Wrote a **Python** script that enables a robotic car to be visualized and controlled over **Bluetooth**
- Built **Arduino** code that reads in sensor data, filters it and relays it to a PC
- Designed, using **EagleCAD**, and soldered together a board that distributes power to the various sensors onboard the robot and monitors the current battery level

Pscycle — May 2015

- Built **Arduino** code for a device that enables cyclists to navigate cities without taking their eyes off the road

Volunteer and Extra-Curricular Activities

Director — RidgidWare electronics store — Sept 2015-present

- Reorganized the inventory to be more beginner friendly by obtaining more hardware kits and platforms

Research team lead — Engineers Without Borders: UW Chapter — Sept 2015-present

- Co-wrote a case study, to be used in a society and technology course, that focuses on global engineering

Hardware Mentor — Waterloo Tech Retreat — August 2015

- Taught high school students how to wire up simple circuits and program Arduinos

Education

Candidate for B.A.Sc. Mechatronics Engineering (Hon) Co-op, University of Waterloo — Sept 2014-present

Interests

- I enjoy swimming, hiking, weight training and reading in my spare time