

Makenson I. Noel

Software Engineer - New Grad

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Skills

Programming Languages: Python, C++, JavaScript

Frameworks: Bootstrap, React Native, Django

Tools: Visual Studio Code, Android Studio, XCode, MySQL

Experience

Florida Power & Light Company

Juno Beach, FL

Material Handling Robot, Software Engineer

January 2021 - August 2021

- Sponsored by NextEra Energy to implement algorithms such as exception handling, docking, and dispatching a Material Handling Robot for use of automating Florida Power & Light inventories.
- Attended scheduled bi-weekly meetings with the project sponsor for progress updates and feedback.
- Tested the robot's battery and voltages, exception handling algorithm, camera, quick response scanning, docking algorithm, dispatching and movement as well as adding python functions to modify the speed of the robot.
- Developed a python application menu alongside a team of other Software Engineers as well as created, reviewed and submitted documentation for future developers.

Tools used: Python, VNC Server, NVIDIA Jetson Nano.

Projects

Motion Detection Device, Software Engineer

May 2021 - August 2021

- Designed and developed a motion detection device with a Raspberry Pi to detect motion based on location as well as created a python application for the device.
- Implemented LED diodes on the solderless breadboard to indicate motion and recording of the device.
- The purpose of this device was to capture unsupervised motion occurrences as well as notify users through a python application.

Tools used: Raspberry Pi, Raspberry Pi Camera, Solderless breadboard, Passive Infrared Sensor, Python, LED diodes, Resistors, Breadboard jumper wires.

Education

Florida Atlantic University

Boca Raton, FL

Bachelor of Science in Computer Science

August, 2021

Relevant Coursework: Engineering Design 1 & 2, Python Programming, Data Structures, Design and Analysis of Algorithms, Database Structures, Microprocessor Systems, Embedded Systems, Matrix Theory, Calculus II.