
Richel Oliver

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EDUCATION

Florida International University

AUGUST 2020 – AUGUST 2023

Bachelor of Science in Computer Engineering

Miami, FL

GPA: 3.35/4.00

Related Coursework:

- Programming Embedded Systems
- C/C++ Programming Embedded Systems
- Embedded Operating Systems
- Programming I/II
- Operating Systems Principles
- Logic Design I
- Discrete Structures
- Data Structures
- Systems Programming
- Computer Design

SKILLS

Programming:

- Python
- C/C++
- Java
- HTML/CSS
- JavaScript
- VHDL

Software:

- Git/GitHub
- Linux/Unix
- VSCode
- CodeBlocks
- Xilinx Vivado
- IntelliJ IDEA

Hardware:

- Arduino
- Raspberry Pi
- NodeMCU
- Beagle Bone

Languages:

- Spanish
- English

PROJECTS

Autonomous Pathfinding Rover

AUGUST 2022 – OCTOBER 2022

- Assembled the circuitry of a rover that uses acoustic sensors to autonomously navigate an environment.
- Implemented the rover using a Raspberry Pi, motor controller board, and python with GPIO APIs.
- Designed a web interface to control the rover remotely over the internet using Flask and Bootstrap.

Room Temperature/ Humidity Tracker

JULY 2021

- Use a NodeMCU ESP8266 development board and DHT22 Temperature and Humidity sensor to track the changes in temperature in my room.
- Utilize Losant's dashboard to have a real-time tracker of my room's temperature and humidity.
- Program a Raspberry Pi to display the Losant dashboard on a small OLED screen.

Airline Reservation System

SEPTEMBER 2021 – NOVEMBER 2021

- This program was created using C with a colleague to simulate the purchase of an airplane ticket.
- The program specializes in simulating a purchase online for an airplane ticket by asking the following users for any valuable information regarding their flight destination.
- The system will automatically collect and output any given information/input in order to print the airplane ticket.

WORK EXPERIENCE

Mater Lakes Academy | Miami, FL

- Assisted the teacher to organize paperwork, print out assignments, and grade assignments.
- Performed data entry into the reporting system, and filed each student's work separately for future evaluations/meetings.
- Took care of classroom logistics (providing copies, taking attendance, etc.)