Jorge Garcia

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# **Objective**

To obtain an embedded system engineer position within an electronics company where my electrical and programming skills together can help in the design and development of embedded systems for various devices.

# **Projects**

## **Morse Code Driver (Nov 2020 – Dec 2020)**

Developed a Linux driver that translates user input into Morse code using the built in LEDs on the microcontroller. Also cooked the driver into the kernel in order to run the driver during startup.

## **5 Star Service (Internship: May 2020 – Oct 2020) https://5starservice.net/**

Created the front end of a web application and made it mobile-ready using HTML, CSS, and Javascript.

## **RAP subscription application (Internship: May 2020 – Oct 2020)**

Modified existing software to correct errors and improve performance. Designed a dynamic mobile-ready user-friendly application used for purchasing subscriptions.

## **DONUT (Aug 2020 - Dec 2020)**

Utilized transfer learning in order to build a neural network for object detection used in an autonomous robot.

## **CubeSat (Oct 2019 – Mar 2020)**

Vice President of FIU’s Panther’s Astronautics and Space Technologies club where I was team leader for the Electrical and Software portion of the satellite, calibrated sensors and interfaced them into an embedded system.

## **Gyro Monitor (Nov 2019 – Nov 2019)**

Employed public speaking skills by hosting an Arduino workshop to teach students how to interface an Arduino with a gyroscope sensor and an LED ring to show the orientation of the gyroscope

## **The Garrison Cage (Nov 2019 – Dec 2019)**

Implemented Python and a Raspberry Pi to interface motors and sensors into an embedded system that measures the socket of prosthetics. Was responsible for the python code, and calibration of each sensor and motor.

## **Tourni App** **(Oct 2018 – Dec 2020)**

As team leader I distributed tasks among team members. Used Java to build an app with a GUI interface to log the progress of any tournament.

# **Certificates**

**NSA/DHS Excellence in Cyber Defense Education**

# **Work Experience**

## **Junior Web Applications developer Internship| RAP | 2020 - 2020**

* Developed web applications using HTML, CSS, Java, and Javascript on Spring Boot framework.

# **Skills**

**Programming languages:** C, Java, Python, HTML, CSS

**Technical:** Linux OS, Embedded Linux OS, Linux kernel, loadable kernel modules, bash scripting, Kali Linux, Arduino, Raspberry Pi, BeagleBone Black, Jupyter Notebook, Windows OS, Point of Sales(Micros, Aloha, InfoGenesis, etc), Microsoft Office.

**Experience:** Linux Bootloader, Assembly Language, Ghidra, Javascript, ROS, Lidar technology

**Languages:** Fluent in Spanish and English

# **Affiliations**

## **Vice President of Panther’s Astronautics and Space Technologies | Member of IEEE | Member of SHPE**

# **Education**

## **Bachelor of Science in Computer Engineering | GPA: 3.32**

Florida International University | Miami, FL | Dean’s List: 2019, 2020

Concentrations: Cyber Security, Big Data, Data System Software, Embedded OS