Felipe Rodas – Software Engineer

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Executive Summary

Dynamic, driven, and decisive Software Engineer with 5 years of hands-on experience in Backend and AI development. Engaging and sharp team leader that possesses the technical expertise to align business goals and customer needs with innovatively engineered solutions.

Education

BACHELLOR IN COMPUTER SCIENCE | EXPECTED GRAD 2026

ASSOCIATE IN COMPUTER SCIENCE | JULY 2024 | MIAMI DADE COLLEGE

Commendations

1st Place Nasa Space Apps Challenge
Outstanding research mentee award
Outstanding academic achievement: Mathematics

Experience

RESEARCH & DEVELOPMENT | ADM | MIAMI DADE COLLEGE | 2022 -2024

· Robotics research and development under Dr. Manuel Carames
· Assisted driving module was a automated guide aid mechanism that could be added to any vehicle and used remotely using TCP/IP communications, IMU for motion detection that was routed to a turret mechanism that would mimic the motion of the user.
· Develop drivers for MPU 92/65 and I2C configuration for communication with raspberry pi pico-w microcontroller.
· Interface with Robotis Dynamixel motors using a C++ driver as an addon for NodeJS server.

SELF-EMPLOYEED CONTRACTOR | F&R TEC | 2021 - 2022

· Develop and teach robotics and programming courses for private middle schools.
· Teach through development of games and physics engines, at a basic level.
· Manage a team of 3 members, for course development and teacher training.

PROJECT MANAGER | AUTOMATED GARDEN | MIAMI DADE COLLEGE | 2023 - PRESENT

· Development timelines, and technical schemas, founds acquisition, research proposals and team building.
· Robotics network communications consulting, TCP/IP, webserver, database configuration.

Technical skills

Software: C++, C#, C, JavaScript, NodeJS, MongoDB, MySQL, MATLAB, Python, I2C, WebSockets, TCP/IP.

Hardware: MPU92/65, RaspberryPi, Arduino, Robotis Dynamix, Quanser, QUARC.

Design: Lucid Chart, OnShape, SolidWorks

Certifications

Linux Foundation NodeJS Developer