Anthony Camarillo

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OBJECTIVE:

Graduate robotics student with a background in mechanical engineering, applied mathematics, and software development. Eager to learn and contribute to innovative engineering solutions in the field of control and robotics.

SKILLS:

Software:

Scientific Computing:

Programming Language:

EDUCATION:

California University, Long Beach

Bachelors of Sience., Mechanical Engineering, Minor: Applied Mathematics December 2019

Masters of Science., Mechanical Engineering, Control and Robotics Expected Graduation: December 2025

DEVELOPMENT:

Engineer - Control Of Robotic Arm - https://github.com/a-camarillo/HiWonder-Max-Arm

Technologies: ESP32, C++

Leveraged the HiWonder Max Robotic Arm to study robotics applications of inverse kinematics and integration of various sensors such as ultrasonic and infrared.

Developed algorithms in C++ allowing the ESP32 to control the robotic arm for object manipulation and object sorting tasks.

Developer - Servo Motor Driver - https://github.com.com/a-camarillo/embedded-rust/tree/main/esp32c6-test/servo-motor

Technologies: ESP32C6, SG90 Servo Motor, Rust, esp-hal

Utilized Rust to write a custom module for the ESP32C6 microcontroller, allowing the microcontroller to communicate with and operate and SG90 servo motor.

Leveraged existing ESP library for configuring onboard timers and generating pulse-width modulation signals to control motor position.

WORK EXPERIENCE:

emergency rental assistance case manager - Robert Half September 2020 - December 2022

Communicated with applicants of an Emergency Rental Assistance Program to ensure they met the criteria outlined, providing over one million dollars of rent and utility assistance.