

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:

Programming Languages: C++, MATLAB, Python, Rust, SQL

Simulation: CoppeliaSim, MuJoCo, Simulink

Software: ROS

Developer Tools: Docker, GDB, Git, Nix

EDUCATION:

California State University, Long Beach

Masters of Science., Mechanical Engineering, Control and Robotics

Expected Graduation: December 2025

Bachelors of Science., Mechanical Engineering, Minor: Applied Mathematics

December 2019

PROJECTS:

Trajectory Planning of Robotic Manipulators - *PACK Lab, CSULB*

September 2024 - Present

Technologies: MuJoCo, Python

Control Of Robotic Manipulator - *Personal Project*

June 2024 - August 2024

<https://github.com/a-camarillo/HiWonder-Max-Arm>

Technologies: ESP32, C++

- Leveraged a commercial 4-DOF robotic manipulator to study physical applications of inverse kinematics, increasing knowledge in control algorithms for robotics.
- Developed algorithms in C++ to enable both manual and autonomous control of the manipulator, integrating various sensors, allowing the manipulator to perform pick and place tasks.

Servo Motor Driver - *Personal Project*

June 2024

<https://github.com/a-camarillo/embedded-rust/tree/main/esp32c6-test/servo-motor>

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

- Programmed a custom module for the ESP32C6 microcontroller, allowing the microcontroller to communicate with and operate an SG90 servo motor.
- Integrated 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 program requirements, providing over one million dollars of rent and utility assistance.
- Collected and organized sensitive documents from clients to simultaneously process an average of 20 cases, guaranteeing a constant flow of applicants receiving assistance.