Aaron Garcia

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References available upon request

Projects

"Smart" Appliance IoT Device / Firmware, Hardware, Mechanical Design

September 2020- June 2021

Wrote Firmware and created hardware for an ESP8266ex based device that interfaced with a webserver to update a user on the state of a home appliance.

SCARA Robotic Arm / Device Communication

January - March 2020

Created a custom serial communication protocol for connecting an FPGA with a matlab program. Used an Arduino to read inputs from a Nintendo Wii Nunchuk and transmit them to a matlab program for manually controlling the robotic arm.

Shell Eco Marathon Prototype Vehicle / BLDC Motor Controller

September 2018- April 2019

Worked with a team of mechanical engineers from OSU's ASME club to develop an electric drivetrain system for an efficiency oriented race vehicle.

More projects Available at:
https://eecs.oregonstate.edu/project-showcase/profile/?id=fbWBxN2ibBGnPQhr

Experience

Tech KTA / Oregon State University

September 2020 - Current, Remote

Assisted professors and faculty in adjusting to remote learning.

Traffic Engineering Technician / Lane County Public Works

Summer 2019 and 2020, Eugene

Collected and entered general traffic data, and performed engineering studies to determine the validity of citizen's requests. Made roadways safer by designing solutions where conditions warranted changes to signage, lines, traffic control devices, etc.

Presentation Support Technician / Oregon State University

October 2019 - March 2020, Corvallis

Managed the functionality and cleanliness of all on-site audiovisual equipment in OSU's general practitioner classrooms. Assisted professors in potentially high stress and time sensitive environments.