

Adrian Rodriguez-Huerta

Westminster, CA 92683/ (714) 650-2639/ adrianrodriguez.12902@gmail.com/ [LinkedIn](#)

EDUCATION

California State University, Long Beach (CSULB)

May 2025

Bachelor of Science in Electrical Engineering (Concentration: Electronics)

Relevant Coursework: Analog & Digital Systems Design, Embedded Systems, Electromagnetic Fields, Control Systems

SKILLS

Technical: Circuit Analysis, Troubleshooting, Mixed Signal IC design, Soldering, PCB Debugging

Software: Altium Designer, LTSpice, MATLAB, Simulink, Multisim, Cadence Virtuoso, Fusion 360, Visio

Programming Languages: C, MATLAB

Leadership: Time Management, Conflict Resolution, Public Speaking, Event Planning, Customer Engagement

EXPERIENCE / CLASS PROJECTS

Bluetooth-Controlled Robotic Arm: Designed and built a 6-degree-of-freedom robotic arm using Arduino, servo, and stepper motors. Implemented Bluetooth control using the HC-05 module and programmed motion algorithms for precision. Integrated flex sensors and gyroscopes to enable hand-gesture control. Developed an FPV camera system for enhanced visibility and remote operation using Arduino IDE

Upwing Energy, Cerritos, CA

May 2025-Present

Electrical Engineering Intern

- Diagnosed and simulated a 6-layer PCB brake system using LTSpice and oscilloscope measurements; identified design flaws via datasheet analysis and proposed improvements..
- Learned Altium Designer to implement schematic/layout fixes, add test points, and optimize prototyping under senior engineer mentorship.
- Integrated external manufacturer feedback into board revisions for production.
- Simulated a 1,000-ft transmission cable to assess system behavior; presented findings to the systems engineer.
- Created Visio documentation of HCC, SCC, and SCS interconnections for field engineers.
- Developing a complete LTSpice simulation of the braking system
- Concurrently learning TwinCAT 3 and Standardized Text for PLC coding

Cathy's Cookies, Anaheim, CA

August 2022 - May 2025

Shift Lead

- Managed daily operations of a cookie truck, leading a team of seven and handling baking, sales, inventory, and cash transactions. Maintained a perfect safety record during tenure.

LEADERSHIP AND ACTIVITIES

TAU KAPPA EPSILON, Long Beach, CA

January 2021-November 2022

President

- Led a chapter of 28 members, overseeing budgeting, recruitment, and chapter operations.
- Organized service projects and leadership events to build member skills and engagement.
- Coordinated fundraising efforts that raised \$1,300 for St. Jude Children's Research Hospital.

Charles R. Walgreen Jr. TKE Leadership Academy, Colorado Springs
Participant

August 2021

- Completed a competitive leadership training program focused on team building, communication, and strategic project planning.