

Hiring Team
A3 Engineering
527 W 7th St, Suite 500
Los Angeles, CA 90014
Dear Hiring Team,

I am excited to apply for the Electrical Engineer position at A3 Engineering. I hold a Bachelor of Science in Electrical Engineering from California State University, Long Beach, with a concentration in Electronics, and I bring hands-on experience in PCB design, system integration, and collaborative project development. I am eager to contribute my technical skills, problem-solving abilities, and team-first mindset to A3's mission of delivering thoughtful and high-performance building systems.

As an Electrical Engineering Intern at Upwing Energy, I gained direct experience diagnosing and simulating complex circuits, including a six-layer PCB braking system. I used LTSpice, oscilloscope measurements, and Altium Designer to identify design flaws and propose improvements. I also coordinated with senior engineers and manufacturers to implement design revisions for production, and presented simulation findings on a 1,000-ft transmission cable to the systems team. These experiences strengthened both my technical foundation and my ability to communicate effectively across disciplines. In addition, I have applied my skills to project-based work such as leading the design of a Bluetooth-controlled robotic arm. I developed servo and stepper motor control systems, implemented motion algorithms, and integrated flex sensors and gyroscopes for gesture-based operation. This project demonstrates my ability to design, integrate, and optimize multi-disciplinary systems from concept to prototype.

Beyond my technical expertise, I bring strong leadership and teamwork skills developed as President of Tau Kappa Epsilon, where I managed chapter operations, budgets, and service projects. My experience as a Shift Lead at Cathy's Cookies further strengthened my ability to lead teams, ensure safety, and deliver reliable results in fast-paced environments.

I am drawn to A3 Engineering's collaborative culture and commitment to innovative, high-performance systems. I am confident that my background in electrical engineering, combined with my leadership experience and eagerness to grow, make me a strong fit for this role. I would welcome the opportunity to discuss how my skills and experience can contribute to the success of your team.

Thank you for your time and consideration. I look forward to the possibility of contributing to A3 Engineering.

Sincerely,
Adrian Rodriguez-Huerta