

Jack Slaten

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EXECUTIVE SUMMARY

Senior at San Diego State University looking for opportunities within the electrical engineering industry. Interested in EE fields, EM radiation, Radio Frequency Engineering, Machine Learning, and PCB Design. Enjoys Arduino programming and Astronomy in free time. Exceedingly eager to learn more in the field of engineering.

PROFESSIONAL EXPERIENCE

San Diego State University, San Diego, CA

January '24 - Present

California Unmanned Aerial Systems Competition (C-UASC) SDSU Team:

- Power & Computer Systems engineer for C-UASC team.
- Coordinated and facilitated weekly meetings among Aerospace, Mechanical, Computer, and Electrical Engineering subteams within a 14 member competition team.
- Leading power distribution PCB design and part procurement; Power systems integration; AI autonomy training; RCBenchmark motor testing; Battery verification.

SDSU Rocket Project: Avionics Team:

- Tasked with PCB designing & troubleshooting, and breakout board communication.

Embedded Systems Programming(C) Lab:

- Embedded system architecture; IO programming using parallel ports, serial ports, timers, and D/A and A/D converters; interrupts and real-time programming; program development and debugging tools; C language.

Modern Optics Physics Laboratory:

- Graduate Level Experiments in various fields of modern optics such as polarization, holography, Fourier transform spectroscopy, light modulation techniques, fiber optics, spatial filtering, diffraction grating spectroscopy, radiometry, and nonlinear optics.
- Worked with many optical lab testing equipment including : Oscilloscopes, Optical Spectrum Analyzers, various types of Photo Detectors, Hall Effect Sensors, and Fiber Optic & General Optic Coupling.

SKILLS

- C++/C Programming, Microcontroller coding, KiCad PCB Design, LTSpice, Soldering, Mathematics, Physics, Fourier Transform, DMM, Oscilloscope, Function Generator, Circuit Analysis, PCB Probing, ADC to DAC.

EDUCATION

San Diego State University, San Diego, CA

January '24 - Present

Bachelor of Science, Engineering

Major in Electrical Engineering & Minor in Physics

Cumulative GPA: 3.0

- Relevant Courses: Modern Optics Lab, Analysis & Design of Elec Circ., Computer Organization, Embedded Systems Programming Lab, Electrical & Magnetic Fields,
- Current Courses Fall '25: Digital Circuits(Verilog), Feedback Control Sys., Analog & Pulse Comm. Sys., Communications & Digital Signal Processing Lab, Senior Design Capstone(C-UASC).

San Diego Mesa Community College, San Diego, CA

August '21 - December '23

Associates in LAS-Math & Pre-Engineering

Cumulative GPA: 3.15

Point Loma High School, San Diego, CA

June '21

WORK EXPERIENCE

Barback at La Doña Mexican Cantina, San Diego, CA

March '21 - June '25

Skilled Laborer with Anjo Remodeling, San Diego, CA

May '25 - Present