

ALEXANDER NEIMAN

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EDUCATION

California Polytechnic State University, San Luis Obispo

Master of Science, Electrical Engineering Sep 2023 - Jun 2024

Bachelor of Science, Electrical Engineering GPA 3.42 2019 - Jun 2023

SKILLS

Experimental and analytical problem solving, Altium, SPICE, Simulink, MATLAB, SOLIDWORKS,

WORK AND LEADERSHIP EXPERIENCE

R&D Systems Engineering Intern at Adona Medical Jun 2023 - Sep 2023

Med device-focused electrical R&D. Optimized, designed, and tested RF antenna systems in a complex operating environment. Mixed-signal and RF PCB layout and bring-up. Mechanical design of sealing assemblies for prototype manufacturing and production molding. Regulatory compliance.

Laboratory Assistant at Cal Poly EE Department Sep 2022 - present

Developed Python automation tools for digitization, automation, and organization of processes to increase throughput and decrease turnaround time. Repair of power supplies, meters, scopes, motors, transformers, and other test equipment. Instruction on equipment safety and operation.

Networking R&D Hardware Design Intern at HP Enterprise Jun 2022 - Sep 2022

Reduced redesign time for power delivery networks on HPE products by evaluating a new processes and measurement equipment. Performed controls and performance analysis of swithing DC-DC converters with VNA. Floor planning and PCB layout. BOM generation, sourcing, and purchasing.

Co-president, treasurer at Cal Poly Medical Design Club Sep 2022 - present

Volunteer position. Run meetings, manage organization operations, and oversee project teams. Conduct club meetings, workshops, and interviews. Increased productivity engagement of club members and project teams by effective procurement of equipment and supplies.

ACADEMIC PROJECT EXPERIENCE

Dynamic, reconfigurable, self-balancing battery system (MS thesis) Sep 2023 - present

System design, analysis, and testing. Battery cell modeling. Power electronics design with HEMT FETs. Safety-critical mixed-signal measurement and controls design.

Linear induction motor design (Senior project) Sep 2023 - Jun 2023

Extensive testing and evaluation of existing design. Magnetic modeling and simulation. Design of magnetic core and windings. Use of impedance analyzer, power analyzer, and strain gauges.

Pill Distribution Device, Cal Poly Medical Design Club Sep 2021 - Jun 2023

Electrical and mechanical design of linear actuator. Design and testing of vacuum system. Electrical design for motor driver, encoder, and user interface. Embedded systems and controls design in C.