

SHARLIZE LEMUS TERRON

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EDUCATION

California Polytechnic State University, San Luis Obispo (Cal Poly) Expected: December 2027
Bachelor of Science in Mechanical Engineering
First Generation Student | Cal Poly Scholar | Jack Kent Cooke Transfer Scholarship Recipient 3.80 GPA

Cerritos College
Associate in Mathematics and Physics, Emphasis in Engineering May 2025
Relevant Coursework: Measurement & Data Analysis, Electronics, Material Removal Processes, Mechanical Systems Design, Intermediate Dynamics*, Vibrations and Systems Modeling*, Heat Transfer* (*currently enrolled).

WORK EXPERIENCE

Click Bond, Inc., Carson City, NV June 2026 – August 2026
Quality/Test Engineering Intern

- Designed a four-phase automated torque-cycle test system using SolidWorks, PLC I/O architecture, sensor/actuator selection, retry logic, and a bill of materials
- Automated Excel reporting for 50-cycle torque tests, reducing test completion time to 1.5 hours and generating formatted reports with one click; authored work instructions for operating the cycle-test device
- Programmed an Atlas Copco Power Focus 6000 for 15° spindle rotation; designed and 3D-printed a torque-wrench calibration fixture and documented its calibration procedure
- Led an AS9102 First Article Inspection gap analysis, defining 18 triggers, exemption criteria, ownership, and an improved shipping-release process

Law Offices of Arno Mehrabi, Los Angeles, CA October 2021 - July 2025
Case Manager

- Demonstrated strong organizational and client management skills by overseeing 100+ cases, coordinating with doctors and insurance companies, and ensuring successful case outcomes

MECHANICAL ENGINEERING & RELEVANT PROJECT EXPERIENCE

NASA Micro-g NExT (Micro-g Neutral Buoyancy Experiment Design Teams) August 2024 – July 2025
Safety and Test Engineer, Cerritos College Team

- Collaborated in a team on a challenge focusing on lunar extravehicular activity (EVA) operations for missions to the International Space Station and Orion crew safety
- Designed an EVA tool in SolidWorks that allows astronauts to join overlapping soft goods from one accessible side, improving efficiency and ease of use in space environments
- Delivered a comprehensive proposal with hand-calculated stress analyses, free-body diagrams, documented assumptions and equations, and validation through finite element analysis (FEA)
- Trained astronauts at NASA's Neutral Buoyancy Laboratory (NBL) on device operation in simulated microgravity environments

Mars Rover Project, 2024 UCLA HAcK Competition June 2024 – August 2024
CAD Team Leader

- Led CAD design and fabrication of rover chassis and mechanical arms in SolidWorks/OnShape; laser-cut acrylic and 3D-printed components enabling object pickup and transport
- Integrated camera, temperature, humidity, and distance sensors into a web-based control center; collaborated with the electronics lead to test hardware, refine designs, and improve prototype performance within 48 hours.
- Delivered technical design review presentation to competition judges. Achieved 1st place in the competition

IEEE (Institute of Electrical and Electronics Engineers) at UCLA April 2024– May 2025
Circuits Project Mentor

- Led technical workshops at Cerritos College through IEEE UCLA's outreach program, strengthening leadership, communication, and teaching skills while training students in soldering, circuitry, coding, and Arduino

SKILLS

Programming & Analysis: Python, MATLAB, Excel
Hardware & Electronics: Arduino, Raspberry Pi, PLC
CAD & Design Software: SolidWorks, AutoCAD, Onshape
Languages: Fluent in Spanish; Conversational in German
Cal Poly Machine Shop Certifications: Red Tag (Safety), MILL, Lathe, Composites