

Alexander Longoria

Flagstaff, AZ | (602) 554-6194 | a.longoria4026@gmail.com | [LinkedIn](#)

Education

Northern Arizona University - Flagstaff, AZ Projected Graduation, May 2024
Bachelor of Science in Mechanical Engineering GPA: 3.47

West-MEC - Buckeye, AZ May 2020
Energy and Industrial Technology GPA: 4.0

Work Experience

Department of Energy Collegiate Wind Competition - Flagstaff, AZ August 2023 - Current
Project Development - Data Validation Engineer

- Assess offshore wind farm lease area opportunities, conduct a cost of energy and cash flow analysis, design detailed site plans, and a hybrid energy sub system.
- Develop and analyze leasing area, transmission infrastructure, point of interconnection, develop a development and construction timeline, public outreach, and a power purchase agreement.

The Home Depot - Flagstaff, AZ April 2021 - Current
Sales Associate

- Consulting with contractors to design a detailed plan to identify the quantity and quality of materials required for projects.
- Creating customers contracts, invoices for equipment rentals and repairs, inspecting equipment for operation and safety, and demonstrating proper use of equipment and maintenance.

Palo Verde Nuclear Generating Station - Tonopah, AZ May 2023 - July 2023
Design Mechanical Balance of Plant - Mechanical Engineering Intern

- Implementing an engineering document change to accept an alternate configuration for an Instrument Air, Air Compressor Discharge Filter Assembly.
- Assisting in a Reactor Cooling Pump Mock Up in preparation for unit maintenance.
- Using Solidworks to design a testing apparatus for a hydraulic stud tensioner and verified its structural integrity by running force analysis simulations.

KES InDustries - Glendale, AZ May 2022 - August 2022
Engineering Intern

- Challenging learning experience about design, fabrication, and modeling of a custom control assembly and racing setups for quadriplegic autocross racers.

Certifications

National Center for Construction Education and Research August 2018 - May 2020

- Core Curriculum December 2018
- Alternative Energy December 2018
- Power Industry Fundamentals December 2018
- Industrial Maintenance Support Mechanic December 2019
- Industrial Maintenance Electrical and Instrumentation Technician Level 2 June 2020

Occupational Safety and Health Administration August 2018

- 10-hour General Industry Safety and Health