

Eric Morales

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Education

University of the Incarnate Word

Bachelor of Science in Mechanical Engineering

Graduated: December 2025

Work Experience

Electrician Helper

A & R Electrical United Service

05/2023 – 06/2025

- Supported wiring and installation tasks for electrical systems, adhering to safety protocols.
- Gained hands-on experience with electrical tools and troubleshooting techniques.
- Assisted licensed electricians in complex system repairs.

Maintenance Assistant

Interpool Inc.

06/2021 – 10/2021

- Conducted routine maintenance activities and ensured high-quality standards.
 - Reported issues for professional resolution and performed detailed cleaning procedures.
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Skills and Qualifications

- **Engineering Tools:** Basic to intermediate experience with AutoCAD, Fusion 360, and MATLAB.
 - **Programming Languages:** Basic to intermediate knowledge in Python, C++, JavaScript, HTML, and CSS.
 - **Technical Knowledge:** Experienced with computer and tech device setup.
 - **Language Proficiency:** Fluent in English, basic Spanish.
 - **Soft Skills:** Strong time management, interpersonal, and team collaboration skills.
 - **Relevant Coursework:** Engineering design, engineering programming, programming languages, computer information systems, heat transfer, fluid mechanics, circuits, signals and systems, FEA
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Projects

Water for Headwaters

- Designed an off-grid system for wildlife sanctuary using Fusion 360.
- Collaborated with clients to align designs with functional objectives.
- Conducted trials to gain accurate information regarding the systems input and output of volts, amps and GPH to determine if calculations were correct for water station.
- Used FEA in fusion 360 to analyze the strains/stresses that were placed onto the water station to see if the station would hold the forces of two large solar panels and one bulk battery without deforming plastically.

Ring Doorbell System

- Designed a UI in Python to integrate real-time data import using Raspberry Pi.
- Built an algorithm for user-friendly program usage through a web-based interface.

Amazon Clone Website

- Developed a replica UI of Amazon's store using ReactJS, HTML, and Python.
- Conducted research on industry standards and implemented the findings effectively.

Organizations and Volunteering

Engineering Club

- Member since 2021, actively collaborating on technical projects as well as participating in various meetings and trips to engineering industries.

UIW Community Garden

- Organized and maintained vegetation and compost structures for sustainability.

San Antonio Food Bank

- Packaged and distributed goods to support the community.

Haven for Hope

- Painted the dorms of a women's shelter in downtown San Antonio for those coming from foreign countries to find residency in the U.S
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