

## Eric Morales

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### Education

#### University of the Incarnate Word

Bachelor of Science in Mechanical Engineering

Graduated: December 2025

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### 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.

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## **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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