

# Jose B. Trevino

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## EDUCATION AND CREDENTIALS

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**The University of Texas Rio Grande Valley (UTRGV)**

**Graduating:** Dec 2025

**B.S. in Mechanical Engineering**

**Engineering GPA:** 4.0

**National Center for Construction Education and Research** – Industrial Boilermaker v4

**Transportation Security Administration** – Transportation Worker Identification Credential

## EXPERIENCE

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**Honeywell UOP** – Rosemont, IL

June 2025 – Aug 2025

*Systems Design Intern*

- Designed reactors for Aromatics Transalkylation and MCH Dehydrogenation units using CAD and engineering calculation tools; delivered two complete drawing and specification packages to EPC contractors, enabling project execution.
- Led vendor document reviews covering 150+ engineering drawings; conducted quality control to ensure contractor compliance with UOP packages, identifying 1,000+ discrepancies and preventing costly delays across 5 multi-million-dollar projects.
- Updated internal design manuals and engineering tools with industry best practices, lessons learned, and customer feedback, reducing mechanical design turnaround time for impacted technologies by 25%.

**UTRGV, College of Engineering and Computer Science** – Edinburg, TX

Nov 2024 – Present

*Undergraduate Research Assistant*

- Evaluated regulatory compliance strategies for high-risk industries and presented risk modeling recommendations to senior leadership at Los Alamos National Laboratory (LANL), directly supporting decisions tied to a government mandated plutonium pit production timeline.
- Led STEM outreach for underrepresented high school students, mentoring an FPV drone project and introducing risk modeling concepts to foster engagement and strengthen LANL's future talent pipeline.

**Repron, Ohmstede, Able Industrial, Sulzer, APTIM, and others** – U.S.

Nov 2014 – June 2022

*Boilermaker Mechanic*

- Oversaw and/or executed maintenance and construction during 20+ refinery turnarounds and shutdowns, specializing in heat exchangers, distillation columns, process valves, and reactors.
- First foreman role: Filled a sudden vacancy to lead an inexperienced team installing an experimental plenum fan conveyor at a carbon processing plant, boosting production by 100% and eliminating traffic-related safety incidents in a 3-month trial. (APTIM, 2020 – Birla Carbon, Centerville, LA).
- First leadman role: Trained an inexperienced team while coordinating with subcontractors, plant operations, and safety personnel, culminating in a two-week turnover of 6 heat exchangers, 2 distillation columns, 20+ valves, and 3 future foremen. (Able Industrial, 2018 – Husky Refinery, Lima, OH).

## LEADERSHIP

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**The Rocket Launchers** – Edinburg, TX

Jan 2024 – Present

*Payload Team – CTO*

- Developed an Excel-based engineering tool that automates the mechanical design of cloud seeding pressure vessels for optimal performance and competition compliance.
- Designed and implemented the hydrostatic testing assembly and procedures used to validate the rocket's pressurized systems for flight readiness.

## SKILLS

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**Programming and Scripting:** MATLAB (Scripting and SIMULINK), C++, Arduino, DirectSOFT, LabVIEW

**Engineering Software:** SOLIDWORKS, Autodesk, ANSYS, Bentley MicroStation, PSpice

**Technical Trades:** Metal Fabrication, Rigging, Pipefitting, Bolt-up, Hydrostatic testing, QA/QC