



Jose B. Trevino

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EDUCATION AND CREDENTIALS

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

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.

Repcon, 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

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

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