

JORGE URDANETA

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EDUCATION

Bachelor of Science in Mechanical Engineering

Expected Graduation: Dec 2026

The University of Texas at Austin

GPA: 3.1

Associate in Science in Mechanical Engineering, *Graduated with Honors*

Graduated: May 2023

Midland College

GPA: 3.8

TECHNICAL EXPERIENCE

Boeing Commercial Airplanes – Manufacturing Engineering Intern (777-777X Program)

June 2025 - August 2025

- Redesigned gyro battery housing with compact integrated features and simplified wiring, reducing system footprint by ~50%
- Restructured HUD inspection tool to increase sensitivity to deviation by 75% and detect hard-point movements over .020"
- Designed economy seat tray with collapsible cup holder and pop-out phone stand, enhancing convenience and reducing spills
- Flagged 24 Boeing 777-9 aircraft with outdated pilot seat builds to drive rework efforts and align with program standards
- Verified cake stand alignment, created visual aid for installation approval, and supported aircraft LSM installation onsite

ASCEND Texas — GoAero & X-Prize Wildfire Challenge

Program Manager

May 2025 — Present

- Leading the transition from an autonomous terrestrial prototype to a hybrid aerial-terrestrial system for remote deployment
- Developed an AppSheet-based coordination system used by 20+ team members to manage 10+ active projects and subteams
- Initiated and currently leading sponsor outreach targeting energy, aerospace, and emergency response sectors
- ASCEND's paramotor ATV hybrid air vehicle concept selected for GoAERO and NASA Innovation Grant Award

Mechanical Design & Production Engineering Intern

Sept 2024 – May 2025

- Oversaw the removal of the gasoline engine and installation of electronic motor to convert ATV into fully electric vehicle
- Originated avionics enclosure concept prioritizing airflow, accessibility, and EMI shielding for system reliability
- Led welding and fabrication of suspended motor mount using C-channels and leveling plates to optimize drivetrain alignment
- Aligned drivetrain layout to meet spacing constraints for motor, batteries, and controller with upgrade potential

Mini-Bowling Mechanism - Manufacturing Engineer

Mar 2025

- Built and assembled a fully functional prototype including alley, gutters, pins, and a motor-actuated linkage mechanism
- Created a scoop attachment that mimics human wrist motion at the output joint of a four-bar linkage bowling mechanism
- Finalized manufacturing and assembly of system components, including the linkage interface and structural mounts

Mass Flow Meter Optimization System – Software Engineer

Jan 2023 – May 2023

- Implemented Python algorithms to improve measurement accuracy and efficiency, reducing error margins by over 10%
- Conducted root cause analysis on system inefficiencies, finding and implementing solutions to improve performance by 15%
- Collaborated with a cross-functional team to integrate process improvements and ensure reliable algorithm functionality

LEADERSHIP EXPERIENCE

Longhorn Energy Club – Vice-President of External Relations

Jun 2024 – May 2025

- Initiated partnerships with energy-related companies and organizations enhancing visibility and impact by +100%
- Showcased students' sustainable projects and innovative solutions to different companies in the energy sector
- Guided the planning and execution of EnergizeUT, a flagship event attracting over 100 participants and 12 companies
- Organized and moderated a series of panel events featuring industry experts from HDR, FERVO, and Google, discussing the challenges and strategies for meeting the growing energy demand from data centers

Society of Hispanic Professional Engineers (SHPE) – Social Media Co-Chair

Jun 2024 – May 2025

- Facilitated and participated in weekly tutoring and mentoring sessions for high school students pursuing STEM careers as part of SHPE's outreach initiatives.
- Led summer recruitment campaigns targeting incoming freshmen and transfer students, increasing SHPE's engagement and visibility through tailored social media content and outreach efforts and growing the organization by 100+ members
- Enhanced social media engagement strategies to increase community interaction by +565%

Whataburger - Manager

Oct 2021 – Dec 2023

- Reduced waste by 50% and shipment costs by 25% through inventory analysis and strategic planning
- Managed a team to break sales record for the week and/or month in seven different occasions while controlling labor costs
- Boosted overall customer satisfaction by 19% via targeted staff training and process optimization

SKILLS & ACCOMPLISHMENTS

- Software:** Python, MATLAB, Finite Element Analysis (FEA), SolidWorks, OnShape, CATIA, Bambu Studio, ideaMaker
- Hardware:** CNC Machining (Wood and Quartz), Manual Milling, Prototyping, Sensor Integration, Welding
- Awards:** 2nd place at Boeing BCA ONE Intern Design-a-thon, Hispanic Scholarship Fund Scholar, Nike Scholarship Finalist
- Work Eligibility:** Able to work in the US with no restrictions | Not able to obtain Security Clearance