Aidan Hernandez

+1 (915) 280-6996 | aahernandez48@miners.utep.edu | LinkedIn: www.linkedin.com/in/aidanhernandez-

EDUCATION

Bachelor of Science in Mechanical Engineering May 2028
The University of Texas at El Paso (UTEP) GPA: 3.87/4.0

- College of Engineering Dean's List – Fall 2024 to Fall 2025

TECHNICAL SKILLS

- CNC Machining
- MIG welding, soldering
- FDM & MSLA 3D printing
- Microsoft Office (Excel, PowerPoint, Word)
- Programming: Python and C
- FEA (structural)
- CFD (introductory / academic)
- Computer-Aided Manufacturing (CAM)
- CAD: SolidWorks and Fusion 360
- Languages: English and Spanish (bilingual)

EXPERIENCE

Solid Manufacturing **09/2024 – 05/2025**
Machine Operator El Paso, TX

- Operated Haas CNC machines to manufacture high-volume metal components, including motor parts, while maintaining specified tolerances and quality standards.
- Inspected machined components using CMM equipment to confirm dimensional accuracy and compliance with engineering drawings.

Axonas3D **12/2024 – Present**
Founder & Designer Juárez, Mexico

- Founded a 3D printing business specializing in medical accessories and custom components.
- Designed and manufactured ostomy belts meeting BENSAN Clinic's specifications for comfort and safety.
- Created and 3D printed custom parts for architecture, industrial design, and engineering students, using FDM and MSLA printers and CAD tools such as Fusion 360 and SolidWorks.

IMSE Research Lab **01/2026 – Present**
Research Volunteer El Paso, TX

- Designed and prototyped multiple precision end-effector grippers for use on a UR10e robotic arm.
- Supported robotic setup, calibration, and safe operation during experimental evaluations.
- Documented design iterations and testing observations to support ongoing research efforts.

PROJECTS

Baja SAE CAD Specialist **11/2024 – Present**

- Collaborated with the structure, steering, and powertrain teams to design and integrate CAD components within the full assembly using Fusion 360 and SolidWorks.
- Performed FEA simulations to evaluate structural integrity and assembly fit.
- Collaborated with bilingual team members (English/Spanish) to coordinate designs and ensure smooth communication and integration.

Miner Motion Motor (MMM) Shell Eco-marathon Competition **02/2025 – Present**

- Designed and assembled the steering system using Fusion 360 and SolidWorks.
- Conducted FEA simulations to validate the performance of key components.
- Performed MIG welding for simple fabrication tasks.
- Worked with a multilingual and multidisciplinary team to improve efficiency and communication across design stages.

ORGANIZATIONS

- **American Society of Mechanical Engineers (ASME) -** Member
- **Society of Hispanic Professional Engineers / Mexican American Engineers and Scientists (SHPE/MAES) -** Member