

Juan Maldonado

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SUMMARY:

Mechanical Engineering student with hands-on experience in mechanical design, CAD modeling, and prototyping. Strong foundation in statics, materials, mechanics, and applied mathematics paired with 10 years of technical military leadership in high-reliability environments with a focus on safety, system readiness, and disciplined execution.

EDUCATION:

Texas State University - GPA: 3.36

B.S. in Mechanical Engineering

Expected Graduation Date: Spring – 2028

Relevant Engineering Coursework & Skills:

SolidWorks, GD&T fundamentals, prototyping, engineering drawings, engineering statics, materials engineering, AI tooling, programming & applied mathematics.

- Designed and modeled mechanical components. Iterated designs based on fit, tolerances, and basic loading considerations. Fabricated prototypes using 3D printing and documented build revisions and results. Designed and built engineering portfolio application using Next.js + Vercel.

EXPERIENCE:

United States Navy

Hospital Corpsman | Operations & Technical Lead

Active Duty 2015 – 2022 | Reserves 2022 – Present

- Led multidisciplinary teams & directed tactical lifesaving training.
- Applied systems-level knowledge of shipboard mechanical and electrical systems including compartment layouts, ballast systems, and electrical bus configurations to support safe operation, configuration control, and mission readiness.

CERTIFICATES:

- **Semiconductor Workshop (Deposition, Photolithography, Testing).** *May – 2025*
Ultrawide Bandgap Semiconductor Research Lab at Texas State University.
- **DoD Secret Clearance** *September – 2025*
- **Honors: Dean's List.** *Fall – 2025*