

Anna Tavenner

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Mechanical engineering student with practical experience designing and verifying custom components in industrial settings. Comfortable in a hardhat or behind a screen.

EDUCATION

Texas A&M – Corpus Christi, TX

December 2026

Bachelor of Science, Mechanical Engineering

Relevant course work: Mechanical Design, Thermal/Fluid Systems, Structural Analysis, Energy & Process Engineering

PROFESSIONAL EXPERIENCE

Steel Dynamics - Casting Division, Sinton, TX

June 2025-Present

Production Engineering Intern

- Gained hands-on experience in industrial design, structural analysis, and maintenance coordination within a heavy manufacturing environment.
- Utilized AUTOCAD to draft and validate mechanical components, conducted load calculations for testing following OSHA requirements, and coordinated with third-party fabricators by communicating with vendors and sourcing quotes.
- Organized preventative maintenance plans.
- Mapped valve systems through industrial prints.
- Shadowed millwrights to better understand operations.

Doc's Seafood and Steaks, Corpus Christi, TX

Aug 2023 - Jan 2025

Server

- Delivered exceptional customer service in a high-paced dining environment, boosted sales per table, managed transactions, and maintained a clean and organized work environment.

PROJECTS & EXTRACURRICULAR

Moisture-Resistant Steam Fan Access Door

June 2025

- Designed protruding access door for industrial fan using AUTOCAD to reduce moisture intrusion and enable inspection access.
- Incorporated welded seams, hinge clearance, and structural details while collaborating with millwrights to match field conditions and fabrication capabilities.
- Addressed critical moisture risks within steam fans to prevent equipment damage and ensure operational safety and compliance.

Tank Basket Load Design

July 2025

- Created custom storage basket in AUTOCAD based on field dimensions provided by millwrights, performed load capacity calculations to ensure safe handling, submitted design to third-party load testing company for verification and final engineering sign-off.
- Designed to enable safe transport of propane tanks in high-temperature environments and pass third-party verification for mill deployment.

American Society of Mechanical Engineers

August 2023

- Participated in industry networking events and technical workshops.

SCUDEM SIMIODE Challenge

December 2024

- Led Group during SCUDEM SIMIODE Challenge, developing mathematical models using differential equations. Earned Meritorious Award.

SKILLS

Programming languages: C#, C++, MATLAB

Computer software/ frameworks: Microsoft Office, Excel, AUTOCAD, SolidWorks/CATIA, Maintenance Connection

Industry Knowledge: OSHA Safety Awareness, industrial equipment reliability, vendor communications, process flow and system mapping, P&ID interpretation, preventative maintenance planning, structural drafting.