

OBJECTIVE

Mechanical engineering student seeking internship opportunities in robotics, design, or manufacturing to apply technical skills and contribute to innovative projects.

EDUCATION

Texas A&M University-Corpus Christi

Bachelor of Science in Mechanical Engineering

Expected May 2027

RELEVANT COURSES/ CLUBS

Engineering Graphics, Circuit Analysis, Fluid Mechanics, Manufacturing Processes, Programming

- First Robotics Team 7788 August 2019 – May 2023
- Member of American Society of Mechanical Engineers January 2024 - Present
- SAE Formula Team September 2024 – Present
- ASME Project Group August 2024 - Present

SKILLS

Software: MATLAB, AutoCAD, Creo Pro/E, Inventor, ANSYS, ADAMS, Microsoft Office Suite, Fusion 360

Fabrication/Equipment: Mill, Lathe, Drill Press, Band Saw, 3D printer, Welder, Variable Power Supply, Powder Coating

CERTIFICATES/ LICENSES

- Apprenticeship electrician license (expires 5/10/26)
- NCCER Electrical 1 & 2
- NCCER Construction
- ServSafe: Food Protection Manager Certification

WORK EXPERIENCE

Head Porter – Port Lavaca Auto Group

May 2024 – August 2024

- Managing personnel and stock to improve workflow and product quality
- Delivering vehicles and maintained organization across multiple departments

Delivery Driver – Domino's

June 2025 – Present

- Ensured on-time, accurate deliveries while providing excellent customer service
- Balanced high-volume orders with strong time management under pressure

RELEVANT PROJECTS

1968 Chevrolet Chevelle Restoration

August 2020 – November 2022

- Designed and restored all aspects of the vehicle, manufacturing custom parts
- Applied manufacturing and welding techniques, balancing workload with school and sports

Yacht Restoration

March 2021 – May 2022

- Restored vessel to working condition while fabricating custom brackets to reduce cost

Slot Machine Restoration

January 2024 – November 2024

- Reprogrammed the system using an Arduino to replace the outdated onboard computer

Torque Plate

September 2025 – October 2025

- Machined an aluminum shaft-and-plate interference fit assembly using lathe and mill operations; calculated required interference using material properties and contact-pressure equations, ensuring proper press-fit performance.

Pully Project

October 2025 – November 2025

- Led an additive-manufacturing optimization project involving FEA analysis, hands-on designing using Inventor and Fusion, generative-design iteration, and extensive 3D-printing parameter testing (infill, nozzle size, wall count, scaling). Systematically evaluated failure modes to converge on a final design achieving the highest tested strength-to-weight performance.
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