

Mario Rojo

B.S.M.E

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76903

Skills

- Solidworks (Design)
 - AutoCAD (Design)
 - Fusion 360 (Design)
 - Inventor Nastran (FEA)
 - Generative Design (Fusion 360)
 - Uncertainty quantification
 - Digital Engineering Basics and Research
 - Model Based Systems Engineering
 - Ansys (CFD)
 - Star CCM (CFD)
 - Abaqus (Design and FEA)
 - Catia No Magic
 - Microsoft apps (Excel, Word, and Powerpoint)
 - Minor in Mathematics
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Experience

DOE Research Internship / Intern

June 2025 - December 2025, UTEP, El Paso Tx

The internship focused mainly on the development of gasifier related technology and its combination with the rising interest in digital twin technology. Furthermore, this internship aimed to teach undergrads key skills like CFD, CPFD, Management Softwares (Catia No Magic, etc.), FEA, CAD, Uncertainty quantification, and model based systems engineering.

GoodYear / Voluntary Plane survey

Fall 2022 San Angelo Tx

Traveled to GoodYear to help map out the elevation of the land for creation of a water based system that allowed the use of above ground water wells without the need for power. This allowed for on site work and allowed for the use of the skills learned in the classroom.

Baja SAE Design Team / Design member

January 2025 - December 2025, San Angelo Tx

Participated as part of the design team tasked with creating a new lightweight Baja chassis following the specific guidelines set forth by Baja SAE rulebook. The final design ended up weighing half as much while also

Education

Angelo State University / Bachelor's of Science in Mechanical engineering

August 2021 - December 2025, San Angelo Tx

Veribest ISD / High School Diploma

August 2017 - May 2021, San Angelo Tx

Awards

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- Worked with fellow engineering classmates to achieve 3rd place in the ASCE competitions.
 - Member of the NHS (National Honor Society) all 4 years of high school.
 - Salutatorian of my high school graduating class

About Me

22 year old recent grad with some internship experience under my belt. I do try my best at every aspect in my work regardless to achieve quality work whenever done. As I have done a research internship, I am not opposed to researching a topic and completely learning it from scratch. I understand as a recent grad, my learning is only just beginning and I must maintain my eagerness to learn from higher ups and professional engineers whenever possible to help better my career and knowledge. I am currently in the process of studying for my EI license and hope to pass as soon as possible.