

Alexander Torres

Education

Texas A&M University at College Station, College Station Fall 2026 • Bachelor of Science in Aerospace Engineering, GPA: 3.75

Experience

Vertical Flight Design Team, College Station, Texas Fall 2024 – Present Structure Designer

- Prepare extensive structural analysis calculation reports and deliver engineering presentations
- Perform numerous engineering calculations of aircraft structures numerically by hand, MathCAD, and Matlab software
- Analyze, research, and develop structural engineering specifications involving metal, non-metals, and composite structural material for product design
- Survey damage tolerance, durability, design requirements, and aircraft modeling

Congressional Hispanic Caucus Institute (CHCI), Houston, TX Spring 2022 – Present Founding Civic Engagement Chair

- Created and managed all online social media presence in order to increase audience engagement and member turnout rate
- Scheduled multiple online meetings to plan three in person networking events for the Alumni-Association of CHCI in Houston, Tx
- Communicated with CHCI's national marketing and logistics team to aid in preparation for 100+ guest at CHCI's national alumni conference

Pioneering Engineering, Houston, TX Summer 2022 – Summer 2023 Engineering Intern

- Developed four technical data sheets to improve work site dimensional layout based off previous construction projects
- Configured two construction components used in heavy machinery maintenance from company archives using AUTOCAD
- Aided the financial department create their orderly budget report that is allocated for project funding

National Aeronautics and Space Administration (NASA), Remote Fall 2020 – Summer 2021 High School Aerospace Scholar

- Selected to view live satellite footage of NASA's Moonshot Virtual STEM experience
- Earned a half-year of high school science elective credit upon program completion
- Attended 29 synchronized Zoom meetings to discuss and collaborate with other scholars to create and implement a mandatory designated online study hall

Skills

Technical Skills: Python, AUTOCAD, SolidWorks, Excel

Certifications: OSHA Certified

Community Involvement

Society of Hispanic Professional Engineers (SHPE), College Station, TX Fall 2022 – Present Member

Society of American Military Engineers (SAME), Houston, TX Summer 2022 – Present Regional Scholar