

Anisa Roshan-Zamir

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Education

The University of Texas at Dallas

05/2027

Bachelor of Science, Mechanical Engineering

- 4.0 GPA

Clear Falls High School

05/2023

- Ranked in Top 1% of class
- Magna cum laude graduate
- Awarded AP Scholar with Honors in 2020 and AP Scholar with Distinction in 2021

Skills

- **Technical Skills:** SOLIDWORKS, OpenRocket, 3D printing, Python, C, Excel
- **Languages:** Full professional Romanian, limited working Spanish

Accomplishments

- Successfully designed, built, and launched a Level 1 motor rocket
- Ranked 53rd out of 121 in Spaceport America Cup 2024 in the 10K COTS category as a first-time competitor

Projects

- Participated in developing and launching an L3 10k COTS motor rocket for Spaceport America Cup 2024
- Worked on payload team to create a 3U (10 x 30 x 10 cm) functional payload experiment which used antenna and ground station receivers to compute location of rocket during launch
- Designed and optimized payload container made up of 5 components to contain battery, PCBs, and antenna necessary for the experiment while ensuring compatibility with the Spaceport America Cup functional payload form requirements
- Utilized SolidWorks to 3D model the payload container, adhering to material specifications, required tolerancing, and dimensional constraints
- Worked closely with structures team to assist in the mounting of payload in the rocket by designing two bulkheads to secure payload in nose cone
- Assisted in assembly of rocket before Spaceport America Cup launch, including nose cone, motor mount, and e-bay assembly, as well as ejection charge and recovery system set up

Work Experience

Student Success Center at UTD - *Academic Peer Tutor*

08/2024 – Present

- Enhance student comprehension by providing one-on-one tutoring sessions in multi-variable calculus to between 20-30 students a week
- Assist students in improving their grades by identifying individual strengths and weaknesses and walking them through challenging problems and helping them prepare for exams
- Guide students towards independent problem-solving skills through collaborative learning exercises during tutoring sessions

Space Center Houston - *Guest Services*

06/2022 - 08/2024

- Provided customer service by welcoming guests, handling admissions, addressing inquiries, and ensuring safety to enhance visitor experience in a dynamic educational environment

Self-Employed – *Math and Science Tutor*

04/2020 - 05/2023

- Tutored students in the surrounding area in subjects such as pre-calculus, algebra, geometry, chemistry, and physics

- Increased student comprehension of difficult topics by breaking down complex concepts into manageable steps

Gulf Coast Aquatics – Lifeguard

05/2021 - 09/2021

- Worked at various pools throughout League City opening and closing the pool, watching patrons, and checking the water's chemical levels
- Learned and maintained proficiency in first responder skills such as First Aid and CPR to offer individuals in distress optimal support

Extracurriculars

UTD Comet Rocketry Member

08/2023-Present

- Member of the Rocketry structures team, assisting in 3D modeling body tube, couplers, nose cone, boat tail, bulkheads, and fins of rocket, and researching and writing out manufacturing document for construction of nose cone

UTD Bahá'í Club Vice President

08/2024-Present

- Assist in organizing and preparing devotionals, firesides, and social events for the religious organization, fostering meaningful and engaging experiences for members
- Attended mandatory meetings to stay informed on campus club requirements, managing documentation to maintain active club registration

Musica Nova Member

08/2023- Present

- Violinist in the UTD chamber ensemble Musica Nova, which meets once a week to rehearse and polish repertoire for a concert every semester