

David Trevino

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Objective

Honors Computational Engineering and Mathematics student at UT Austin with hands-on experience in mechatronics, simulation, 3D modeling, and control systems. Seeking an engineering internship to contribute technical skills and creative problem-solving.

Education

Bachelor of Science, Honors Computational Engineering | Bachelor of Science, Mathematics

The University of Texas at Austin – Austin, TX | Expected May 2027 | Junior | GPA: 3.94/4.00

Relevant Coursework: Advanced Scientific Computation, Feedback Control Systems, Electromechanical Systems, Linear Systems, Computational Fluid Dynamics, Low-Speed Aerodynamics, Applied Thermodynamics, Software Engineering & Design

Technical Skills

- Programming & Software:** C++, Python, MATLAB, Java, Arduino | **3D Modeling & CAD:** Blender, SOLIDWORKS, OnShape
- Simulation & Analysis:** OpenFOAM, NoLimits2 | **Hardware & Prototyping:** Arduino Uno, Circuit Design

Engineering Projects & Competitions

- Technical Director** – *Escape from Lydia’s Hollow (TxTPED Haunted Escape Room)*, Austin, TX May 2025 – Present
- Oversee all technical systems for TxTPED’s escape room, including electrical puzzles, projections, and show control.
 - Assist with cues, lighting, and troubleshooting during construction to ensure reliable operations.
- CDH Team Member** – *Texas Spacecraft Laboratory (SCOPE)*, Austin, TX Aug 2025 – Present
- Develop flight software for data processing and communication, ensuring reliable mission operations with a team.
- Team Lead & Participant** – *Toronto Metropolitan University Thrill Design Competition (TMTDC)*, Orlando, FL June 2024 – Nov 2024 & June 2025 – Present
- Led 2025 team, designed and simulated main ride in NoLimits2, coordinated tasks, applied ASTM standards.
 - Awarded distinction for Creative Skill & Integration (Nov 2024).
- Participant** – *Swamp Thrills Design Competition (Gator TPED)*, Virtual Jan 2025 – Mar 2025
- Assisted with ride layout, 3D modeling, and simulated coaster in NoLimits2.
- Animatronic & Set Designer** – *Escape from Wonderland (TxTPED Escape Room)*, Austin, TX Aug 2024 – May 2025
- Fabricated animatronics and interactive set pieces for immersive experiences.

Leadership & Professional Experience

- External Vice President** – *TxTPED*, Austin, TX Aug 2025 – Present
- Manage external travel and funds; communicate with Industry Professional for Guest Speakers.
- FIG Mentor** – *UT Austin Cockrell School of Engineering*, Austin, TX Aug 2025 – Present
- Mentor first-year students; lead weekly seminars on study strategies, university resources, and career development.
- Bevo Buddy Leader** – *UT Austin New Student Services*, Austin, TX Jan 2025 – May 2025
- Guided incoming students through welcoming activities and connected them with campus resources.
- Peer Advisor** – *UT Austin Cockrell School of Engineering*, Austin, TX Nov 2024
- Advised Aerospace and Computational Engineering students on course selection and degree planning.
- Chemical Engineering Intern** – *Huntsman*, Conroe, TX June 2022 – July 2022
- Monitored industrial distillation processes and tested prototype mini reactor.

Organizations & Awards

- Texas Theme Park Engineering & Design (TxTPED):** External VP (Aug 2025–Present), Internal VP (Jan–May 2025), Social Chair (Aug–Dec 2024) | **STEM Buddies:** Secretary (Aug 2024–Present)
- Awards:** Virginia & Ernest Cockrell, Jr. Scholarship in Engineering; Valedictorian, Oak Ridge HS 2023