

David Trevino

Austin, TX | (281) 466-9609 | davidtrevino0630@utexas.edu

LinkedIn: <https://linkedin.com/in/david-trevino-157bb12bb> | Portfolio: <https://dtrevino0630.github.io/portfolio/>

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 | 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, AutoCAD
- **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.
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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.
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Organizations & Awards

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