

David Trevino

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Objective

Honors Computational Engineering and Mathematics student at UT Austin with hands-on experience in feedback control systems, electromechanical design, and embedded programming. Seeking an engineering internship in system integration, troubleshooting, and testing for large-scale industrial or entertainment-based engineering projects.

Education

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

The University of Texas at Austin – Austin, TX | Expected May 2027 | GPA: 3.83/4.00

Relevant Coursework: Feedback Control Systems, Electromechanical Systems, Linear Systems, Computational Fluid Dynamics, Low-Speed Aerodynamics, Computational Methods for Structural Analysis

Technical Skills

Programming & Software: LabVIEW, Microsoft Office, C++, Python, MATLAB, Arduino, R, Linux | **3D Modeling & CAD:** SOLIDWORKS, AutoCAD, OnShape, Blender | **Hardware & Prototyping:** Arduino Uno, Circuit Design, Electromechanical integration, servo motors | **Simulation & Analysis:** OpenFOAM (CFD), NoLimits2 (system simulation), ASTM Safety Standards

Engineering Projects & Competitions

Project Director – *Who Wants to be a Time Traveler? (TxTPED Themed Experience)*, Austin, TX Dec 2025 – Present

- Lead full-cycle development of a large-scale themed experience, coordinating multidisciplinary teams.
- Oversee technical direction, schedules, budgets, and integration of interactive systems with electrical/control-based parts.

Technical Director – *Escape from Lydia's Hollow (TxTPED Haunted Escape Room)*, Austin, TX May 2025 – Nov 2025

- Directed electrical puzzles, projections, lighting cues, and show control systems for a fully immersive escape room.

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 ride system in NoLimits2, coordinated tasks, and applied ASTM safety 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

- Designed and fabricated an animatronic system involving servo motors, basic control logic, and interactive set pieces.

CDH Team Member – *Texas Spacecraft Laboratory (SCOPE)*, Austin, TX Jan 2025 – Dec 2025

- Develop flight software for data processing and communication, ensuring reliable mission operations with a team.
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Leadership & Professional Experience

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.

Chemical Engineering Intern – *Huntsman*, The Woodlands, 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):** Project Director (Present), External VP, Internal VP, Social Chair
- **Walt Disney Imagineering 2025 Imaginations Competition:** *Quarter Finalist*
- **Texas Spacecraft Laboratory (TSL):** CDH Team Member
- **Awards:** Virginia & Ernest Cockrell, Jr. Scholarship in Engineering; Valedictorian, Oak Ridge HS 2023