

Brian Lu

281-704-7565 | brianlu@utexas.edu | Austin, TX | [linkedin.com/in/brian-lu-utexas/](https://www.linkedin.com/in/brian-lu-utexas/)

EDUCATION

The University of Texas at Austin, Austin, TX

May 2030

Bachelor of Aerospace Engineering

- Engineering Honors
- Relevant Coursework: Multivariable Calculus

EXPERIENCE

Nationals Engineering CAD Team Katy, TX

August 2025 – May 2026

Seven Lakes Science Olympiad

- Created detailed 3D CAD models and multi-part assemblies in Onshape from technical drawings, applying geometric constraints and assembly mates to accurately define component relationships
- Collaborated with teammates to divide workload and maximize efficiency of task completion
- Earned 2nd place at states, along with a top-15 finish at nationals. Team finished 2nd overall

National Champion Build Team Katy, TX

August 2024 - May 2026

Seven Lakes Science Olympiad

- **Bungee Drop:** Engineered and optimized a precision bungee drop device using physics-based modeling, multivariable data analysis, statistics, and iterative design to maximize accuracy
- **Wind Power:** Designed and optimized miniature wind turbines for power generation using CAD, iterative design, and fluid dynamics
- Earned consecutive 1st and 2nd place team finishes at nationals, along with multiple top 15 individual finishes (6th place in Astronomy!)

Co-Founder and President Katy, TX

August 2023 – January 2026

STEMJUMP non-profit – stemjump.org

- \$170,000 generated in revenue, with \$80,000+ donated to local STEM and educational institutions
- Led 100+ members in delivering affordable STEM programs to students across three Texas locations and nationwide through virtual programming
- 200+ programs offered, reaching 2000+ students, including many week-long summer camps covering science, robotics, and engineering

Quality Control Intern Houston, TX

July 2024

Accumulators Inc.

- Inspected hundreds of high-power-density hydraulic accumulator components for dimensional and quality compliance
- Collaborated with engineers to evaluate inspected components against technical requirements and specifications

PROJECTS - <https://bit.ly/brianluportfolio>

Custom Formula-Style RC Car

- Designed and fabricated a complete formula-style RC chassis, suspension system, and aerodynamic profile using Onshape and rapidly prototyped components through FDM 3D Printing
- Engineered a custom electronic control system centered around an Arduino Nano, designing and soldering custom Perf-Boards
- Designed a custom telemetry system to capture real-time rotational wheel speed to develop traction control

- Designed and tested Aerodynamic elements that reduce drag and generate downforce through wing elements and the ground effect

Floating Arm Trebuchet

- Constructed a custom wooden floating-arm trebuchet with a range of 20+ meters
- Collected large amounts of data to create targeting tables that enabled rapid range adjustments using weights

LEADERSHIP & COMMUNITY INVOLVEMENT

Boy Scouts of America, Katy, TX

June 2019 – February 2026

Eagle Scout, Senior Patrol Leader

- Earned Eagle Scout Rank after being a scout for 12 years (this includes cub scouts). Built fish habitats for community ponds for Eagle project.
- Served as Senior Patrol Leader of Troop 424 from July – December of 2025 leading ~80 scouts of various ages

Seven Lakes High School Orchestra, Katy, TX

August 2019 - May 2026

Section Leader, Cellist

- Played the Cello for 7 years in Middle and High School, earning multiple “Superior” ratings at State and Regional level competitions
- Served as section leader of 13 Cellists during Senior Year

SKILLS

CAD: Onshape

Fabrication: FDM 3D Printing, Soldering, Woodworking

Electronics: Arduino, Perf-Board Assembly

HONORS AND AWARDS

- **Gold Presidential Volunteer Service Award (2023, 2024)**
- **Silver Congressional Award (2025)**
- **KatyISD Award of Student Excellence for Science**