

Taylor Mackey

007tmack@gmail.com | tel. 214-500-7434 | DOB: February 20, 2007

University of Texas

EDUCATION

Austin, Texas

August 2025- Present

- Freshman Mechanical Engineering Major

ENGINEERING/ROBOTICS

FRC Team 6672 – Fusion Corps - 2022 World Champions

10 hrs/week, 9 months/year

2021-25

Team Captain (12):

- Teach new members important skills, order parts, design final robot, plan practices and meet with adult mentors

Engineering and Pit Crew Team member (9-12):

- Work to brainstorm, research, design (CAD) and prototype with 3D printers, CNC, Lathe, and other tools to develop the final robot, Work to fix and prepare robot at competitions

Longhorn Baja Racing

4 hrs/week

Powertrain team member

August 2025-Present

- Work to design, develop and tune the off-road baja car's Continuously Variable Transmission (CVT)
- Only freshman at UT in my sub-team

Heads Up, Inc. (custom aviation products)

Jan/May 2024

Externship/Shadowing

2 days

- Shadowed CEO to understand operations & business overview with focus on 3D printing, engineering design & production

LEADERSHIP

Boy Scouts of America, Troop 838, Dallas, TX

2018 - Present

Eagle Scout, Senior Patrol Leader, Order of the Arrow member

2 hours/week, 50 weeks/year

- Completed 36 merit badges and a project painting a map of the United States on an outdoor sports court at The Highlander School (91 Service hours)
- Served as the youth leader of 30 scouts, planning campouts and leading weekly meetings, earned highest rank for exemplary achievement, experience, and skill in multiple areas of outdoor endeavor

HOBY (Hugh O'Brien Youth Leadership Conference)

2024

- Selected by high school's faculty as the school representative at the conference
- Learned leadership skills through workshops and activities

3 days/year

College Ambassador

2024

- Greet & host college admissions counselors who were visiting campus

1 hour/week, 8 weeks/year

Big Brothers

- Met with rising freshmen to give advice, information, and encouragement as they enter a new academic and social atmosphere

2024-2025

1 hour/week, 8 weeks/year

National Leukemia and Lymphoma Society - Student Visionaries of the Year

2025

- Worked with friends to create a student-led cancer fundraising team, @CureQuestDallas with a goal of \$150k (achieved)

30 hours/year

WORK EXPERIENCE

Unique Boutique (custom coasters & more)

2024-2025

Co-founder

3 hours/week

- Produce custom-designed coasters using CNC, laser and 3D printers
- Market products to local businesses, restaurants & individuals
- Designed website and Etsy storefront

Private STEM Tutor & Mentor

2021-2024

- Tutor elementary school-age boys in 3D printing, chess, and computer programming

6 hours/month, 50 weeks/year