

# Joshua Lu

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## EDUCATION

### University of Texas at Austin

Bachelor of Science in Mechanical Engineering | Austin, TX

2028

GPA: 3.9

### Georgetown High School

Georgetown, TX | Student Council | Varsity Soccer | NHS | VASE | FCA

2022 - 2024

GPA: 3.9

## EXPERIENCE

### Founder & CEO

Neurofix LLC, Georgetown, TX

2018 - Present

- Buy and sell bulk consumer electronics, generating over \$300,000 in gross sales through various online global storefronts, while repurposing salvaged electronics by repairing and improving devices, refining skills in soldering and PCB repair.

### Undergraduate Research

FIRE, Austin, TX

2024

- Collaborated with students and faculty (Dr. Richard Neptune) to test and collect data from force-instrumented pedals to design a chairing that will best match the leg kinematic angular velocity profile.

### Hardware Lead

IEEE RAS, Austin, TX

2024

- Led a group of 4 to build a robot to navigate autonomously through various obstacles while carrying ping pong balls as part of the IEEE Robotathon competition.

## LEADERSHIP

### Engineering Club President

Georgetown High School

2022 - 2024

- Revived the GHS Engineering Club after it was dormant due to COVID-19, creating a space for students to explore the depths of engineering through practical projects and demos by organizing weekly meetings, managing an officer team, collaborating with other student organizations and guest speakers.

### Hosted Local Business Workshop

Oasis Church

2023

- Partnered with a local church to plan and host a two-day business event with over 150 attendees, providing educational and practical guidance about e-commerce and the resale market.

### Freshman Officer

ASME, Austin, TX

2024

- Lead several technical and social events over the school year to engage and involve the freshman class at the largest engineering org at UT Austin.

## PROJECTS

### Electric Hydrofoil Board

Designed and constructed a carbon fiber hydrofoil with a NACA 23015 profile medium-aspect wing and a 3000w propulsion system, optimized for low speed stability and straight line tracking at a fraction of a consumer efoil setup.

2025

### SystemsGo Rocket

Fredericksburg, TX

2023

- Led a group of students to design and launch a two-stage rocket with a 1lb research package, reaching 5280ft while applying the RD&D loop and developing key technical and teamwork skills such as , assembly management, problem-solving, and documentation.

### High Powered Electric Scooter

Designed and built a 80lb dual powered 5000w high-speed electric scooter from scratch; implemented features to improve handling and throttle control, optimized for city riding.

2024

### Electromyography Prosthetic Arm

Modified and improved a 3D articulable robotic prosthetic design in CAD software, integrating electromyography (muscle activity sensor) utilizing extensive research and design to ensure precise muscle activations.

2021

## SKILLS

- Fusion 360, Solidworks, RockSim, VESC tool
- Product Marketing, Inventory Management, Advertising
- Cost Analysis, Assembly Management, Mechanical Design
- English, Spanish (Native), Chinese (Fluent)