

# SETH FRIEND

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## OBJECTIVE

Motivated ECE student seeking a summer internship to apply technical skills, collaborate on real-world engineering challenges, and grow through customer-facing and cross-functional experiences.

## EDUCATION

### University of Texas at Austin

Austin, TX

Electrical and Computer Engineering GPA: 3.77

Expected Graduation, May 2027

- Relevant Coursework: Materials Engineering, Probability and Random Processes, Intro to Electrical Engineering

## EXPERIENCE

### Electromechanical Lead

Austin, TX

Ivy Technologies / Amazon Robotics

May – July 2025

- Led multiple teams of 7–10 to construct 12 Cardinals (Amazon's automated work cells), completing ahead of schedule
- Collaborated with other leads to install 409 automation-compatible chutes, including mechanical assembly and electrical wiring
- Performed final quality checks and troubleshooting for 20 Proteus self-driving robots responsible for warehouse cart transport

### Technical Assistant → Projects Lead

Austin, TX

Texas Invention Work | Electronics and Projects Teams

Aug 2024 – Present

- Provide technical support to students and faculty, assisting in project design and tool use
- Deliver workshops and trainings on soldering, 3D printing, and basic electronics

### Research Assistant and Robotics Mentor

Austin, TX

Robot Interactive Intelligence Lab

Jan – Dec 2024

- Taught a robot arm to hit a balloon in simulation using robomimic with more than 95% success
- Worked on a team of 3 to integrate Sony Mocopi as an input device for Telemoma
- Dual-booted three Windows computers to Ubuntu 20.04; set up ROS Noetic and all necessary repositories
- Taught concepts such as imitation learning, PyTorch, ROS, pose, and inverse kinematics to 20 high school students
- Oversaw construction of 6 BaRiFlex robotic hands

## PROJECTS

### Bipedal Robot | CAD, Soldering, Fabrication, Simulation

July 2025 – Present

- Designed a humanoid robot in Onshape with 5 DoF in each limb
- Constructed robot using quasi-direct drive motors in each leg joint and servos in the arm
- Working on simulating the robot in Isaac Sim to achieve walking

## EXTRACURRICULAR EXPERIENCE

### Society of Hispanic Professional Engineers | Active Member

Aug 2023 – Present

### Engineers for a Sustainable World | Active Member

Aug 2023 – Present

- Provided support to new Ecobots project with arduino, robotic, and soldering workshops

### Texas Robo Rumble | Team Lead

Jan – Apr 2024 & 2025

- Spearheaded creation of a 7-member team and delegated work to all members
- Used soldering, milling, 3D printing, and CAD to create two robots in the 3lb weight class
- Designed and fabricated a 3D-printed end effector to support 2lb of weight

## TECHNICAL SKILLS

**Languages:** Python, Java, Spanish

**CAD and Design:** SolidWorks, Fusion 360, KiCad, LTspice

**Developer Tools:** Git, VS Code, Arduino IDE

**Libraries:** Pandas, NumPy, Matplotlib, PyTorch