# Dylan Tse

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## EDUCATION

**The University of Texas at Austin**, *Austin, TX* May 2026
*B.S., Electrical and Computer Engineering | GPA: 4.00*
Relevant Coursework: Assembly Programming, Embedded Systems, Software Design, Digital Logic Design

## EXPERIENCE

**Oncor Electric Delivery**, *Dallas, TX* May 2023 – August 2023
*EMS Data Analytics & Automation Intern*

- Created Python and SQL program for checking and diagnosing 200,000+ station and T&D lines, condensing hundreds of hours of manual, error-prone work into 2-minute runtime
- Corrected 3,000+ one-line display linkages and load shed/distribution automation flags, proactively resolving T&D issues in grid operation

**Nocial**, *Austin, TX* February 2023 – May 2023
*Full Stack Software Engineering Team Member*

- Devised core features, GTM strategy, and business model for app gamifying social media addiction
- Developed Flask-based RESTful API for backend and integrated it with Android app interface

**6G Microelectronics Research**, *Austin, TX* October 2022 – May 2023
*Research Assistant*

- Converted MATLAB programs for designing semiconductor masks to Python script with ezdxf library to enhance readability and future replication
- Assisted with research to enable chip-scale acoustic and cross-domain microsystems

**TransAxn**, *Austin, TX* September 2022 – December 2022
*Software Engineering Team Member*

- Designed a ReactJS front-end web application to enable transaction logging for small businesses
- Prototyped backend framework with Hyperledger Fabric to emulate private blockchain

## PROJECTS

**Osu! Spinoff**

- Wrote rhythm game in C and ARMv7 assembly from scratch and optimized I/O interrupts
- Constructed custom handheld game console with serial transmission, joystick, D-pad, and LCD

**Obstacle Course Robot**

- Developed robot with line tracking and distance sensing to simulate real driving scenarios
- Programmed dynamic positional line-following algorithm using infrared sensor data in C++

**Google Dorm**

- Customized voice assistant on Raspberry Pi with AIY assistant library and Google Assistant API
- Worked in Linux development environment and used SSH to write scripts on Raspberry Pi

**SecurCity** – *HackTX 2022*

- Integrated Google Maps with React Native to make interactive map of safety incidents at the university
- Devised UI/UX wireframes with Figma to exhibit main features of mobile app

## HONORS AND AWARDS

**Cockrell School of Engineering Honors Scholarship** August 2022
**International Climate Science Olympiad Finalist** *(50 out of 12,000)* October 2021

## SKILLS

**Technical Skills**: Python, C/C++, Java, ARM Assembly, SQL, HTML/CSS, JavaScript, React, Git, Flask, Docker, Firestore, Eagle, Spice, Arduino, TM4C MCU, Raspberry Pi, Microsoft Office