

Annie Li

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EDUCATION

Texas A&M University

May 2026

Bachelor of Science in Electrical Engineering, Minor in Mathematics & Graphic Design

- Craig and Galen Brown Engineering Honors
- Relevant Coursework: Introduction to Digital Systems Design, Machine Learning, Differential Equations, Electrical Circuit Theory

EXPERIENCE

Secure and Trustworthy Hardware Lab

College Station, TX

Undergraduate Research Assistant

March 2024 – Present

- Developed design-automation hardware fuzzing algorithms to effectively ensure trustworthiness of programs with **Python**, achieving **1.98x** the speed of industry-standard approaches
- Designed and implemented hardware vulnerabilities based on real-world scenarios into **Verilog** system-on-chip designs for capture-the-flag competition Hack@DAC 2024

Texas A&M Health Science Center

Houston, TX

Research Assistant

June 2024 – July 2024

- Led initiative to develop a QRS complex detection algorithm in order to perform more effective electrocardiographic data analysis with **MATLAB**
- Performed code optimizations and adjusted parameters on existing signal detection algorithms to improve performance speeds by **33%**

PROJECTS

Tritone

November 2024

- Built an IoT system leveraging embedded hardware to provide live local sound transcription and audio directionality indicators through trilateration with **C++**, **Python**, and **React**
- Utilized WebSocket connections for real-time audio streaming and integrated distance-based filtering to ensure consistent performance in diverse auditory scenarios

Traffic Light Controller

April 2024

- Designed traffic light state machine to recognize real-time sensor input and react to specified timing conditionals with behavioral **Verilog**
- Tested and verified functionality by implementing design onto an FPGA board, utilizing Vivado synthesis and LEDs for output display

ACTIVITIES

TAMUhack

November 2023 – Present

Creative Director

- Established strong visual identity and marketing materials for a hackathon with **800+** attendees resulting in a **17%** annual increase in applications
- Designed 2 user-friendly and visually appealing event websites in accordance with brand identity to engage a diverse audience of **10,000+** users

Aggie Data Science Club

August 2024 – Present

Member

- Worked collaboratively on global data mapping web app to allow users to compare metrics between countries and run predictive simulations on variable data with **Python** and **React**

SKILLS

Programming: Python, Java, C++, JavaScript, Verilog, MATLAB, Pandas, React

Digital Design: Figma, Adobe Photoshop, Illustrator, SolidWorks