Annie Li

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EDUCATION

Texas A&M University May 2027

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

- Craig and Galen Brown Engineering Honors
- Coursework: Digital Systems Design, Electrical Circuit Theory, Computer Architecture, Machine Learning

SKILLS

Languages: Python, C/C++, Verilog, SystemVerilog, JavaScript, HTML/CSS
Softwares: Cadence Allegro, Vivado, MATLAB

EXPERIENCE

Hewlett Packard Enterprise Houston, TX

Electrical Hardware Engineering Intern May 2025 – August 2025

- Reworked critical component on hardware module by referencing **Cadence Allegro** schematics and performing precision soldering, followed by **I2C** power sequence and functionality scripting
- Implemented fault detection logic and scan chain-based bus communication on a CPLD with **SystemVerilog,** allowing for efficient testability

Secure and Trustworthy Hardware Lab College Station, TX

Undergraduate Research Assistant March 2024 – Present

- Developed design-automation hardware fuzzing algorithms to ensure trustworthiness of programs with **C++**, achieving **1.98x** 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

- Developed a QRS complex detection algorithm to automate electrocardiographic data analysis with **MATLAB**

PROJECTS

Tritone November 2024

- Built IoT system leveraging **ESP32** and WebSockets to provide real-time local speech transcription and speaker directionality indicators with **C++** and **Python**
- Integrated dynamic distance-based audio filtering to ensure consistent performance in diverse scenarios

Traffic Light Controller April 2024

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

ACTIVITIES

TAMUhack November 2023 – Present

Creative Lead

- Led team of designers in developing a strong visual identity and marketing materials for hackathons with **800+** attendees, leading to a **17%** year-on-year increase in applications from diverse fields of technology
- Designed 3 user-friendly and visually appealing event websites to engage a diverse audience of **10,000+** users

Institute of Electrical and Electronics Engineers August 2024 – Present

Public Relations Chair

- Directed creative strategy and external communication for career and social events throughout the year, including the first IEEE student-led Semiconductor Summit with **500+** attendees