Claire Yuan

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EDUCATION

University of Southern California, Los Angeles   Aug 2021–May 2025 (anticipated)
Electrical and Computer Engineering
- Presidential Scholar, 4.0 GPA
- *Relevant Coursework:* Linear Algebra (MATLAB), C++, Embedded Systems, Calculus III

SKILLS

❖ **Programming**: C++, Java   **Web Publishing:** HTML, CSS, JavaScript

EXPERIENCE

USC Makers   Jan 2022–present
- Hyperactive Noise-cancelling Headphones project using a Teensy 4.0 audio board
- Collaborated on a program that cancels out audio frequencies as the sounds are being played

Computational Methods for Design and Discovery Lab   Sep 2021–present
CURVE Research Fellow
- Programmed a graph theory based approach in C++ for levelizing and simulating CMOS circuits to discover efficient configurations

USC Solar Car   Aug 2021–present
Electrical Team
- Soldered solar cells; spot welded battery pack and completed wiring

LEADERSHIP/SERVICE

USC IEEE (Institute of Electrical and Electronics Engineers)   Sep 2021–present
Academic Ambassador
- Brainstormed, planned, and executed academic-related events; created flyer to publicize
- Collaborated with other ambassadors to organize social event

PHHS Science Olympiad   Aug 2018–June 2021
Co-President, Fundraising Coordinator, Team Member
- Facilitated communication between vendors and officers to lead fundraisers
- Hosted club meetings and handled internal club operations

TutorBridge   June 2018–June 2021
Math Tutor
- Designed and used lesson plans for individual and small groups of elementary/middle-school students
- Taught math based on students' needs, in-person and virtually

PROJECTS

Fingerprint Trojan Check
- Built with a fingerprint sensor, Arduino Uno, Photon WiFi Board, and LED
- Prototype determines your theoretical COVID compliance status when your fingerprint is scanned and matched