

# Diandao Wu

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## Education

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### University of California, San Diego

M.S., Electrical Engineering: Electronic Circuits & Systems

admitted Jun 2026 - Expected Dec 2027

B.S., ECE: Computer Engineering (Course taken same as EE Circuits Track)

Jun 2024 – Jun 2026

- GPA 3.6
- Coursework: Analog Circuit Design, Power Electronics, Power System, Digital Signal Processing

### Cosumnes River College

Aug 2020 – May 2024

A.S. Computer Science

## Experiences

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### Electrical Engineer

Oct 2025 - Present

#### Triton Solar Car, UCSD

- Designing power management system of solar-powered human-driven car with two 96V, 3000W hub motors
- Managed a 405-units 3.7V rechargeable lithium battery bank, overseeing cell balancing and safety protocols to maintain stable voltage input and output
- **Skills:** LTSpice, Arduino, Autodesk Fusion

### Electrical Engineer

Apr 2025 - Sep 2025

#### Baghdadchi Lab, UCSD

- Investigate, design, and develop interactive games for optic education to high school and college students
- Customized circuits for light pulse detection; implemented supporting firmware in Arduino IDE
- Designed and fabricated PCB with two layers through KiCAD, significantly improved system reliability
- Created 3D printed enclosures in Autodesk Fusion
- Developed a solar-powered game by creating the PCB from a given schematic
- **Skills:** Circuit Design, KiCAD, LTSpice, Autodesk Fusion

## Projects

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### Noninverting Amplifier

Apr 2025 - Jun 2025

#### UCSD

- Designed and prototyped a stable non-inverting op-amp amplifier with 62.1° phase margin and 316 krad/sunity-gain frequency
- Simulated in LTSpice and MATLAB and confirmed design stability through prototype testing and oscilloscope analysis

### Parking Assist System Technical Lead ([Demo](#))

Sep 2024 - Oct 2024

#### UCSD

- Brainstormed and proposed an innovative solution to the problem, overseeing all engineering aspects, led a team of 3 to develop an obstacles detection system addressing the challenges of narrow parking spaces
- Designed and implemented wireless data transfer between ESP32s, optimizing system efficiency and eliminate needs for extensive wiring
- Developed an OLED screen interface, improving visual clarity and significantly enhancing user interaction and overall experience
- **Skills:** C++, Python, Embedded, ESP32, ESP-NOW
- Among 14 groups, selected as the only project to have poster showcased

## Skills

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- Programming: MATLAB, C++, C
- Developer Tools: KiCAD, LTSpice, Arduino IDE, Autodesk Fusion, Microsoft Office
- Equipments: Oscilloscope, Multimeter, Power Supply