James Huang
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EXPERIENCE

Startup Incubator Club (SIC)

Co-Founder & Senior VP 09 2025 - Present

- Co-Founded and grew SIC to 100+ dedicated members over the course of 20 weeks.
- Established strong culture and graduated 12+ startups, helped raise $5M+ in funding.
- Planned and executed large scale events of 500+ people, managing budgets of $100k+.
- Build a strong network of domain experts and consultants to accelerate startup learning.

Triton Unmanned Aerial Systems 10 2024 - 11 2024

Powerboard team

- Used Altium to design custom drone PCB, improved designs with numerous iteration cycles.
- Collaborating with mechanical and software leads to integrating subsystems effectively.
- Select and source appropriate electrical components such as motors, batteries, and controllers.

Triton Robotics 09 2024 - 10 2024

Electrical Team

- Oversee the design, assembly, and testing of the robot's electrical and power distribution systems.
- Ensure all electrical components meet safety standards and competition regulations.
- Troubleshoot electrical issues during prototyping, testing, and competition to maintain system reliability.

PROJECTS

Fully-Autonomous Robot 01 2026 - 02 2026

- Designed 3-D printed chassis, individual circuitry to detect lines, and end to end assembly.
- Interfaced ESP32 to communicate with sensors and PID control to steer Robot.
- Debugged motor control instability; added filters to signal lines, improved error calculation.

Pinball Machine 04 2026 - 05 2026

- Lasercut testboard, design circuits to detect pinballs and activate various actuators.
- Designed low-noise sensor circuit achieving reliable ball detection at 1kHz.
- Implemented shift register-based score display system driving 7-segment displays; optimized refresh rate to eliminate flicker.

Quadcopter 05 2026 - 06 2026

- Tested drone stability across environmental conditions and tuned PID parameters to maintain controlled flight.
- Built a custom power management system with voltage regulation and battery monitoring.

EDUCATION

University of California, San Diego 09 2024 - Present

GPA: 3.8

Relevant Coursework: Analog & Digital Circuits, C++, Controls, Signals & Systems, Complex analysis

SKILLS

- PCB design, Soldering , Oscilloscope debugging, Excel, Altium, Kicad, Solidworks, Matlab, Git, MATLAB, Cross-functional collaboration, Rapid prototyping, Chinese