

Son Huynh

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EDUCATION

San Diego State University

Expected Spring 2026

Bachelor of Science – Computer Engineering

Minor – Computer Science

PERSONAL PROJECTS

Arduino Wireless Weather Station

- Collecting weather data to provide comprehensive view of weather conditions. Using BME680 sensor to measure temperature ($\pm 1^\circ\text{C}$ accuracy), humidity ($\pm 3\%$ RH accuracy). Enabling real time data collection.
- Converting data into graphical representations using Python and MATLAB to aid identify key trends.
- Data transmission using Wi-Fi protocols encryption to enhance security
- Implement Amazon Alexa with Arduino R4 to expand the capabilities of weather report functionality via voice commands, offering responsive and customized experience for users.

Freestyle FPV Drone System

- Constructed 2 FPV drones from individual components (motor, flight controller with gyro and accelerometer, camera system, GPS modules, video transmission, radio transmitter.).
 - Conducted extensive test flights. Fine-tuning component which allows up to 9 minutes of flight time during complex aerial movements.
 - Using 2.4 GHz and 5.8 GHz frequency for communication transmission.
 - Repaired and maintained flight equipment on-site to ensure continuous, reliable operation and minimize delays during testing.
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WORK EXPERIENCE

SDSU College Of Engineering

San Diego, CA

IT Help Desk Student Assistant

August 2024- Present

- Installed and configured educational software, managing user permissions, ensuring compliance with university standards.
- Troubleshoot and resolved software issues for faculty members, enhancing operational efficiency through technical support.
- Monitor computer hardware and software following school's standards and policies.
- Update and maintain the school's IT supply, ensuring high-quality devices are available for staff and students.

M&E Computers

San Diego, CA

IT Consultant Intern

March 2024 – September 2024

- Conduct thorough diagnostics on computers and mobile devices to identify and resolve hardware and software issues. Using specialized tools to detect problems and efficient troubleshooting for over 300 clients.
 - Delivered ongoing technical support and maintenance services for 50+ clients' IT systems, ensuring reliability and minimizing system downtimes.
 - Contributed to management hardware upgrades for client systems, resulting in 20% improvement for overall system performance.
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TECHNICAL SKILLS

- **Programming Language:** C++, C, Python
- **Relevant knowledge:** Wireless Network Protocols, Circuit Analysis and Design, Embedded System, Computer Architecture