Christopher H. Simaan

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EDUCATION

University of California, Los Angeles   **June 2023 – May 2025**
B.S. - Computer Science and Engineering

Cuyamaca College   **June 2021 – Mar 2023**
A.S. - University Studies - Science and Mathematics

EXPERIENCE

Software Developer   **Jun 2023 – Present**
Telaeris
San Diego, California

- Designed a Bluetooth-enabled PCB to interface with a dual-frequency RFID module, facilitating versatile contactless badge verification
- Developed a PCB that extended RFID reader range and achieved an 88% reduction in badge read time.
- Developed a custom PCB with Zigbee communication, integrating with sensors for efficient data transfer, and created durable housing for environmental resilience
- Implemented Bluetooth vibration sensors for real-time motor performance monitoring and notifications, collaborating with cross-functional teams to resolve software challenges

Software Developer   **Jan 2019 – Mar 2019**
Alpha Technics
Oceanside, California

- Developed Alexa interface integration to wireless t-Pod thermometers.
- Collaborated with technical directors on completion of project components.
- Created presentations on topics discussing the implementation and specifications of new products.

Technical Support   **Aug 2015 – June 2017**
Holy Trinity School
El Cajon, California

- Maintained and restored preexisting computer systems, desktops, and peripherals.
- Acquired requests from administration to optimize classrooms preferences based on personal teaching styles
- Achieved a 10% reduction in technology costs while upgrading classroom experiences with new technologies
- Reduced average issue resolution time by 50%, ensuring minimal disruption to teaching activities.

PROJECTS

BruinMap
React-based web app with authentication, password reset, interactive maps, room search for UCLA Math/Sci, and event saving.

Homework to Notion
Automated Python script to sync assignments from Canvas and Gradescope to Notion for streamlined task management.

Structured
Java-based macOS app using the Processing library to create generative mathematical art, used by students in the MacLab.

Car Connect
C++ project interfacing phone and car via CAN-Bus for ECU control and remote start using a relay system.

Remote PC Switch
Custom PCIe card enabling remote PC control via ESPHome and Home Assistant through Front IO connectors

Alarm Keypad
ESP32-S3-powered alarm keypad with fingerprint, NFC, and keypad integration for Home Assistant.