



Simeon Tran

COMPUTER SCIENCE GRADUATE STUDENT

Santa Cruz, CA

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Education

University of California, Santa Cruz

M.S. IN COMPUTER SCIENCE AND ENGINEERING

Santa Cruz, California

Sept. 2023 - PRESENT

University of California, Santa Cruz

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Santa Cruz, California

July. 2019 - June. 2023

Master's Thesis

OpenThread ASCON Fork for ESP32 Devices

[HTTPS://GITHUB.COM/UCSC-THREADASCON](https://github.com/UCSC-THREADASCON)

Jan. 2024 - Present

- Removed encryption algorithm used in OpenThread (AES) and replaced it with the ASCON encryption algorithms
- Forked and modified ESP-IDF source code to allow 802.15.4 compatible ESP32 devices to run my modified OpenThread ASCON fork

Skills

Embedded Systems	ESP-IDF, OpenThread
Back-end	OpenAPI, GraphQL, PostgreSQL, Docker, Firebase
Front-end	React, Angular, HTML5, CSS
Programming	C/C++, Python, Typescript/Javascript, Haskell
Soft Skills	Tutoring, Mentoring