

Khanh Hoang

EDUCATION

CALIFORNIA POLYTECHNIC STATE UNIVERSITY – SAN LUIS OBISPO

Bachelor of Science: Computer Engineering, GPA: 3.99

San Luis Obispo, CA

Sep 2019 ~ Mar 2023

RELEVANT COURSEWORK

- Microcontrollers/Embedded Appl.
- Computer Architecture
- Systems Programming
- Computer Design & Assembly
- Design and Analysis of Algorithms
- Object Oriented Programming
- Intro to Computer Security
- Intro to Operating Systems
- Intro to Computer Networks

EXPERIENCE

CLARIS INTERNATIONAL – APPLE INC SUBSIDIARY

Software Engineering Intern

Sunnyvale, CA

Jun 2022 – Sep 2022

- Developed using Agile Scrum methodologies on a software platform utilizing a CICD pipeline
- Designed and implemented a serverless end-to-end synthetic testing framework to ensure 100% uptime with third-party service integrations
- Created RESTful API endpoints for retrieving and writing to an AWS DynamoDB NoSQL database.
- Programmed NodeJS and Python backend code which were deployed to AWS infrastructures using the Terraform infrastructure as code (IaC) platform

ROBERT E. KENNEDY LIBRARY

Student Assistant

San Luis Obispo, CA

Nov 2021 – Mar 2022

- Operate the circulation desk as the main point of contact for patrons' inquiries and checkouts
- Organize and conduct inventories of library material

STEAM FOR VIETNAM: ROBOTICS EDUCATION

Teaching Assistant

Hanoi, Vietnam

Oct 2020 – Apr 2021

- Assisted in preparing course to teach students aged 12-17 years old about robotics and programming
- Researched most suitable platform (VEX IQ w/ RobotMesh Python) for target audience
- Translated technical reference documents from English into Vietnamese

CAL POLY GEARSLINGERS: VEX U ROBOTICS TEAM

Software

San Luis Obispo, CA

Sep 2019 – Mar 2020

- Developed C++ code for robot user-operated control for the 2020 VEX-U competition
- Utilized distance sensors, and gyroscope to program a predetermined set of movement for a robot

PROJECTS

Remote Controlled Smart Microwave (WIP) | C++, SPI, UART, LTE Communications | Senior Project

A microwave that communicates with a microcontroller and can be remotely controlled through phone calls and SMS.

TinyFS File System | Python | Operating Systems Project

A persistent file system implementation that can be mounted from a file on disk to create files and store data.

DANCE DANCE STMREVOLUTION | STM32 Microcontroller, SPI, GPIO, C | Embedded Systems Project

A "Dance Dance Revolution" style game developed on the embedded STM32 microcontroller.

EDUCATIONAL ASSISTANT | NodeJS, SQLite 3, REST API | <https://github.com/BenderNation/EdumacationBot>

A Discord bot designed to assist with homework reminders and store notes. Connects to Canvas to retrieve notifications.

SKILLS

- Java, C++, C
- Python, NodeJS
- Linux OS & Bash Scripting
- Agile Methodology
- Amazon AWS
- Git Version Control

AWARDS

PRESIDENT'S HONORS LIST - Cal Poly

| Consistently held GPA of 3.5+ each quarter for 2 years 2019-2021

BEST BEGINNER HACK - SLO Hacks

| Awarded at the SLO Hacks 2020 hackathon

Mar 2020

3RD PLACE FINALIST - Hack the Fog

| Awarded at the Hack the Fog 2018 hackathon

Feb 2018