

# KEVIN PHAM

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## OBJECTIVE

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Computer Engineering graduate looking for full time internship or entry level roles for Summer or Fall 2022.

## EDUCATION

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**BS Computer Engineering** , San Jose State University

2017-2022

Relevant Coursework: Real Time Embedded Systems, Digital Design, Microprocessor Design

## SKILLS

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**Technical Skills**      Verilog, C, C++ , Git, HTML, Python, FreeRtos

## EXPERIENCE

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**Student Mentor**

August 2021 - December 2021

Edlyft *San Francisco, CA*

- Instructed a cohort of 6 students core CS concepts such as trees, sorting, and linked lists
- Increased student's assessment score by an average of 7.5%
- Prepared coding questions weekly to help students prepare for interviews.

**Software Engineer Intern**

June 2021 - August 2021

NASA Ames Research Center *Moffett Field, CA*

- Developed a network simulator to drop packets and generate realistic delays for testing of software in support of air mobility data transmission
- Used NS3 to create a user configurable simulation that generates an animation and output log
- Attended weekly cybersecurity meetings with other interns

## PROJECTS

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**RTOS Mp3 Player** — <https://github.com/kpham56/146MP3>

Utilized FreeRtos to program an mp3 player. Created driver files for Uart, SPI protocol for interfacing SD card, LCD screen and MP3 decoder. Featured volume control, bass and treble control. Utilized powerbank and mechanical switches for computer-free user operation.

**Ultrasonic Obstacle Avoidance Car** — <https://github.com/kpham56/cmpe127proj>

Built an obstacle avoiding car by interfacing an ultrasonic sensor mounted on a servo with the TM4C microcontroller. Utilized TIVA to program board.

**NS3 LTE Simulation** — <https://gitlab.com/kpham/NS3Sim/-/tree/main>

NS3 Scripts to test LTE connection between several mobile vehicles. User can adjust amount of nodes, towers, packet size, throughput, distance, and mobility speed/pattern. Creates a visual animation that can be viewed frame by frame.

## LEADERSHIP

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**Club President**

August 2021 - June 2022

San Jose Dragon Boat *San Jose, CA*

- Facilitated bimonthly meetings to discuss team goals, events, and performance.
- Led communication with SJSU for official club events and recruitment.