

Jonathan Lin

 [duckadence](#) |  [Jonathan Lin](#) |  jonlin11@gmail.com |  (408) 506-6472

EDUCATION

Santa Clara University (Santa Clara, CA)
M.S. Electrical Engineering

Current
(GPA: 3.8)

Santa Clara University (Santa Clara, CA)
B.S. Electrical and Computer Engineering

2024
(GPA: 3.7)

SKILLS

Programming Languages:

C/C++, Verilog

Familiar Technologies:

LTSpice, STM32Cube, MATLAB, KiCAD, FreeRTOS

Technical Skills:

Soldering, Circuit Analysis, Electrical Measurements, PCB Layout

RELEVANT COURSEWORK

Upper Division Classes:

Electronics, Computer Architecture, DSP, Real-time Embedded Systems

Elective Classes:

Power Electronics, Mechatronics, Digital IC Design

PROJECTS

Door Security System

2024

- Final project for graduate Embedded Systems class programmed with C on a STM32 Discovery Board
- Utilizes FreeRTOS and interfaces with several peripherals in different tasks

Underwater Servo Loop Prototype

2023 - 2024

- Senior Capstone Project in collaboration with the Climate Foundation
- Prototype for transmission of depth and temperature data from underwater kelp platform to surface
- Coded frequency shift keying modulation and demodulation as well as control loop logic

Whack-A-Mole Bot

2024

- Final project for Mechatronics class utilizing an Arduino Mega 2560
- Programmed PID line following, color sensing, and mole hitting capabilities
- Achieved 3rd place out of 14 teams in number of moles hit in 1 minute

Remote-Controlled Music Player

2023

- Final project for Embedded Systems class programmed with C on a STM32 Discovery Board
- Decodes and plays a RAW music file from a USB drive
- Controlled through a generic IR remote

CLUBS

Tau Beta Pi (Member)

2023 - 2024

- Tutored students for "Intro to Logic Design" and "Circuits I"

Engineers Without Borders (Member)

2022

- Worked on germination chamber for Valley Verde, a non-profit community garden
- Designed and built chamber sensor/heating circuit, controlled by Arduino UNO R3