WESLEY LUU

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Education

California Polytechnic State University, San Luis Obispo　　　　**Expected June 2024**
Bachelor of Science in Computer Engineering　　　　*San Luis Obispo, CA*

Relevant Coursework

- Data Structures
- Discrete Structures
- Object Oriented Prog.
- Circuit Analysis 1,2,3
- Computer Design
- Digital Design
- Modern Physics
- Linear Analysis

Experience

California Cybersecurity Institute (Cal Poly ITS)　　　　**April 2022 – Present**
Software Developer　　　　*San Luis Obispo, CA*

- Implemented discord bots to help with the company's events. Where the bots allow players to request help from admins using a support ticket system.

Projects

Singify | *Python*　　　　**1st Place @ SLO Hacks Hackathon Fall 2021**

- A "finish the lyrics" game using Spotify, YouTube Transcript, and YouTube Search APIs, coupled with speech recognition and visual machine learning.

Covid Bot | *Python*　　　　**2nd Place @ Cisco Hackathon Spring 2021**

- Worked on a team of three and created a python program that sends users by phone or email open covid vaccine appointments within user radius and done so by filling a google form

Dragon Rush | *Java*　　　　**Spring 2021**

- Started with a large messy code-base. Converting the code-base from procedural to object oriented programming, and after doing so changed the theme to dragons for the game and used A* star algorithm for enemy tracking in the game.

Whack the Note | *System Verilog*　　　　**Spring 2021**

- Created an game inspired by "Whack a Mole" using on Bassy3 board with FPGA using System Verilog. A game is to flick on the switch where the led blinks, get a point and each point you get a note from a song. Goal to get 32 points before the 20 sec timer runs out.

Technical Skills

Programming Languages: Python, Java, Assembly(RISC-V), C Programming
Developer Tools: Github, VS Code, LTspice, Xilinx Vivado, Bash, Linux
Software: GitHub, Microsoft (Word, PowerPoint, Excel)
Tech Skills: Function Generator, Multimeter, Oscilloscope, DC Power Supply.
Hardware Skills: SystemVerilog/Verilog, Experience in Soldering , Experience in FPGA and PCB desgin

Awards / Extracurricular

Robotics　　　　**Fall 2021 – Present**
Software Team Member　　　　*Cal Poly SLO Robotics*

- Helping with the development of Life-Size R2-D2, currently working on serial transfer of data and developing the neural network allowing it to roam freely around campus.

Presidential Dean's List

- Dean's List: Fall 2020, Fall 2021