Wilson Szeto

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Education

California Polytechnic State University, San Luis Obispo Graduation: June 2024
Bachelor of Science in Electrical Engineering
Relevant Coursework: Computer Vision, Electrical Conversion, Electronic Design, Microcontroller System Design, Analog Electronics, Digital Electronics, Semiconductor Electronics, Software C, Control System Theory, Digital Design, Computer Architecture, Continuous Time Signals, Discrete Time Signals, Circuit Analysis I, II, III

Technical Skills

Programming Languages: Python, C, MATLAB, Assembly (RISC-V), HTML, CSS
Tools and Technologies: Version Control(Git/Github), JIRA, MS Office, AWS , Embedded Systems (Raspberry Pi, Arduino, STM32), Scrum, Agile, BASH
Electrical Engineering: Oscilloscope, Multimeters, PSPICE, LTSPICE, Soldering, SystemVerilog
Hardware Engineering: MCUs, I2C, SPI, UART, test validation, computer architecture, system architecture

Experience

The Boeing Company October 2023 – Present
Software Test Engineer San Luis Obispo, CA

- Identify bugs for various Mission Accelerator application relating to UI/UX, Web APIs, and Responsiveness.
- Developed and executed detailed test cases for both functional and non-functional requirements.

California Cybersecurity Institute (Cal Poly ITS) March 2022 – October 2023
Software Developer San Luis Obispo, CA

- Revamped legacy code of previous discord bots into modern, maintainable, and robust code for future development.
- Fixed internal structure and UI/UX functionality, allowing users to understand the bot intuitively and drastically reduced the number of errors users could make.
- Developed Python-based automatic bots allowing user to verify and request for help, handling over 100+ tickets and improving user support efficiency.
- Improved bot reliability by integrating AWS services including DynamoDB, EC2, and CodeCommit.

Personal and Academic Projects

Ultra Sonic Distance Sensor (Live Demo)(Links Later) September 2023 - December 2023

- Designed, built, and validated a full ultrasonic distance sensor system with python, raspberry pi, transmitter driver, receiver amplification, and comparitor. Able to detect up to 4 meters accurately.

Course Hero Bot (Live Demo) June 2021 - Present

- Achieved user engagement with 65,000+ students and 200+ daily users, generating over 20 million files and enhancing academic resource accessibility.

Function Generator (Demo Github)(Links Later) April 2023 - May 2023

- Achieved user engagement with 65,000+ students and 200+ daily users, generating over 20 million files and enhancing academic resource accessibility.

Remote Controlled DC Fan (Demo Github) June 2021 - Present

- Achieved user engagement with 65,000+ students and 200+ daily users, generating over 20 million files and enhancing academic resource accessibility.

Signify (Devpost Github) November 2021

- Won 1st place at SLO Hacks Fall 2021 Hackathon. A game that plays a song, stops, & leaves players to finish the lyrics. Worked on the algorithm that determines correctly sung lyrics.

Ebay Seller (Profile) July 2021 - June 2023

- Managed over +800 official transactions and +1500 unofficial transactions, generating over +$10000. Sold exclusive video game items obtained using trade bots, auto farm scripts(x100-x1000 times faster), and web scraping.