

ALEC CHENG

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EDUCATION

California Polytechnic State University, San Luis Obispo Commencement June 2024 expected
Bachelor of Science: Computer Engineering

EXPERIENCE

SensTek - Pleasanton, CA

March 2021 - September 2022

Lead Information Technology Intern

- Installed and configured hardware and software components to enable mobile sensor data capabilities for customers.
- Led the end-to-end assembly and testing of proprietary sensors, ensuring quality and reliability.
- Designed and developed user-friendly GUIs to effectively present sensor data to investors and customers during presentations.

Silicon Valley Advantage - Pleasanton, CA

November 2020 - March 2021

Technology Strategy Intern

- Collaborated with startup companies and individual entrepreneurs to formulate comprehensive business and marketing plans, facilitating strategic growth.
- Designed and executed multi-language media campaigns, including web pages, flyers, and demo videos, to enhance the online presence of various companies.
- Conducted extensive research to identify and secure corporate funding opportunities through grants, governmental initiatives, and organizational programs.

PROJECTS

GPS location Pointer

- Successfully interfaced the NEO-6M GPS module with the Nucleo64 development board to obtain real-time location data and direct toward specified destinations.
- Profound understanding of hardware-software integration for GPS systems.
- Mastery of I2C and USART communication protocols, enhancing data retrieval and transmission skills.
- Enhanced proficiency in troubleshooting and debugging hardware and software interactions.

Digital Multimeter

- Employed a Nucleo64 microcontroller for precise measurement of AC/DC voltages across various waveforms.
- Proficient in designing and implementing systems for real-time data processing.

Spider World Game

- Developed a Java-based GUI for the Spider World Game using Java AWT.
- Gained extensive experience in the complete software development lifecycle.
- Demonstrated strong object-oriented programming (OOP) skills in software development.

SKILLS

Programming Languages: Python, Java, C, SQL, Verilog, Assembly language(RISC-V, MIPS)