XIAOKANG CHEN

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https://xiaokchenedu.github.io/

Education

University of Hawai'i at Mānoa Honolulu, Hawaii
Bachelor of Science, Computer Engineering *Aug 2021 – Expected Graduation Fall 2024*

- BAM (Combined Bachelor's & Master's Degree) program for BS Computer Engineering/MS Electrical Engineering
- As a computer/electrical engineer, my primary interest lies in hardware/software design such as designing/building circuit boards and computer software.

Relevant Coursework

Electrical: Basic Circuit Analysis I, Basic Circuit Analysis II, Physical Electronics, Discrete Math for Engineers, Engineering Electromagnetic I.

Computer: Programming for Engineers (Python), Object Oriented Programming (C/C++), Introduction to Digital Design, Introduction to Computer and Network Security, Digital Systems and Computer Design.

Experience

Cyber Security Training Honolulu, Hawaii
Office of Naval Research ROTC Cyber Security Training Program *Sep 2022 – May 2023*

- Learn the basic of Linux and security tools to examine computer and network security.
- Work on computer and network security, drones, Internet of Things (IoT), cloud, and mobile systems.
- Virtualization through type 2 hypervisor.

Projects / Program

Aerospace Technologies: Team Laniākea | https://www.teamlaniakea.com/ *Jan 2024 – Present*

- Create a functional, low cost satellite to take a picture of the Hawaiian Islands from space.
- Engaged in tasks involving solar cells and antennas.

UHM SCADA LAB | https://uhm-scada-lab.github.io/ *Sep 2023 – Dec 2023*

- Designed and implemented a miniature town model to visually represent the principles of two closed-loop systems and one open-loop system.
- Engaged in Raspberry Pi programming using Python, concurrently applying circuit design principles that incorporated relays, motors, water level sensors, and other components.

ALU Project | https://xiaokchenedu.github.io/projects/ALU.html *Nov 2022 – Dec 2022*

- Created a combinational digital circuit featuring 8 distinct operations, each operating on 4 bits.
- Designed and simulated the 8 different operations using Falstad, and subsequently implemented the combinational circuit in Verilog

UHM ICSpark Program | https://icspark.github.io/ *Jun 2021 – Aug 2021*

- Intro to Web Development Course.

Awards & Achievements

UHM Physics Olympic 2020: 28 team challenge each other in five different events based on concepts of physics, our team won 3 event with 2 second place and 1 third place.

Technical Skills

Computing: C, C++, Python, HTML/CSS, Javascript, MATLAB, LaTeX, Verilog, VHDL

Tools: Visual Studio Code, Jetbrain, Vim, Git, Linux/Unix, VitrualBox, VMWare

Languages: Mandarin (Native), English (Fluent)