XIAOKANG CHEN

+1 (808) 389-5887| xiaokang.chen888@gmail.com
https://www2.hawaii.edu/~xiaokang/

EDUCATION

University of Hawai'i at Mānoa   Honolulu, Hawaii
Undergraduate   *Aug 2021 – Present*
- Currently pursuing a bachelor's degree in Electrical/Computer Engineering.
- Planning on joining BAM (Combined Bachelor's & Master's Degree) program for BS Computer Engineering/MS Electrical Engineering

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.

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.

PROJECTS / PROGRAM

UHM SCADA LAB | GitHub   *Sep 2023 – Present*
- Use Artificial Intelligence & Machine Learning techniques to develop an automated signature-based IDS (Intrusion Detection System).
- Design and deploy sensors on the remote network to flow data to a signature-based IDS (Intrusion Detection System).
- Use AI/ML techniques to automatically create both permissive and restrictive signatures on the remote SCADA network.

ALU Project | GitHub   *Nov 2022 – Dec 2022*
- Combinational digital circuit with 8 operations, each operations are 4 bit.
- Design 8 different operations on Falstad.
- Implement the combinational circuit in Verilog.

UHM ICSpark Program | GitHub   *Jun 2021 – Aug 2021*
- Intro to Web Development Course.

TECHNICAL SKILLS

Computing: C, C++, Python, HTML/CSS/JavaScript, MATLAB, LaTeX, Verilog, VHDL
Tools: Visual Studio Code, PYCharm, CLion, WebStorm, Vim, Git, Linux/Unix, VitrualBox, VMWare
Languages: Mandarin (Native), English (Fluent)