

Chun-Hao Chang

NATIONAL CHENG KUNG UNIVERSITY · B.S. DEGREE IN ELECTRICAL ENGINEERING

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Summary

I am now purchasing B.S. degree of Electrical Engineering in National Cheng Kung University. I have enthusiasm for Computer Architecture, Digital Circuit Design and also take many courses related.

In this semester, I am participating in two courses "Advanced Computing Architecture and AI Chip Design" and "VLSI Digital Circuit Design". The former introduces advance Computing System Design and topics about AI Acceleration, the latter introduces transistor-level digital circuit design, optimization techniques and EDA tools like HSPICE, Virtuoso and Laker.

I also join many extracurricular activities such as swimming team, animal welfare volunteer and free after-school tutoring for students.

Why Google HPS?

I hope that I can get familiar with ... because I have great interesting in Hardware design and also Software-HARDware Co-design.

Education

National Cheng Kung University

Tainan, Taiwan

B.S. DEGREE IN ELECTRICAL ENGINEERING

Sep. 2020 - Jun. 2024

- Intern Student in AI System Lab, NCKU EE
- Teaching Assistant in PlayLab, NCKU SOC
- Member of Swimming Team

National Changhua Senior High School

Changhua, Taiwan

REGULAR CLASS

Sep. 2017 - Jun. 2020

- Member of Swimming Team

Skills

Programming Language C, C++, Python

Hardware Design Language Verilog, Chisel

EDA tools HSPICE, Virtuoso, Laker

Others Linux Environment, Git

Work Experience

Playlab

NCKU SOC

TEACHING ASSISTANT OF AI COMPUTING ARCHITECTURE AND SYSTEM, SPRING 2023

Feb. 2023 - Present

During the time of being TA in AIAS, I have to prepare one lab call whose topic is Branch Prediction.

Playlab

NCKU SOC

TEACHING ASSISTANT OF AI COMPUTING ARCHITECTURE AND SYSTEM, FALL 2022

Sep. 2022 - Jan. 2023

Related Courses

Advanced Computer Architecture and AI Chip Design

NCKU SOC

SPRING 2023

OoO CPU, RISC-V Pipeline CPU implementation and topics about Neural Network Optimization

VLSI Digital Circuit Design

NCKU EE

SPRING 2023

VLSI Digital Design concepts and techniques such as speed & power optimization, circuit simulation with HSPICE and layout design with Laker

Computer Algorithm

SPRING 2023

Basic algorithms, including Sorting, Dynamic Programming, Greedy Algorithm, Graph Algorithms and advanced Data Structures

NCKU EE

Computer Organization

FALL 2022

Basic Computer Architecture concepts with RISC-V ISA

NCKU EE

Microelectronics

FALL 2021 - FALL 2022

Semiconductors, BJTs and MOSFET, Small Signal Model and different types of Amplifiers

NCKU EE

AI Computing Architecture and System

SPRING 2022

Simple RISC-V CPU implementation and basic ideas about how to accelerate AI Computing by SIMD instruction and Systolic Array

NCKU SOC

Electric circuits

FALL 2021 - SPRING 2022

Electric circuit theory

NCKU EE

Logical System

SPRING 2021

Basic concepts about Logical Design and Digital Circuits

NCKU EE

Introduction to Computers

FALL 2020 - SPRING 2021

Programming concepts and techniques like Object-Oriented with C++ Programming Language

NCKU EE