

Hanle Zhang

University of Chinese Academy of Sciences, Beijing, PRC, 100049
✉ Email: zhanghanle21@mails.ucas.ac.cn / peter.zhang@berkeley.edu

EDUCATION

University of Chinese Academy of Sciences(UCAS) Sept. 2021-July. 2025 (expected)
Bachelor of Computer Science and Technology Ranking: 2/92 GPA: 3.95/4.00
Advisor: Prof. Yungang Bao
University of California, Berkeley Jan. 2024-May. 2024
Visiting Student in EECS Department GPA: 4.00/4.00
CS152(Computer Architecture), CS170(Algorithms), CS188(Artificial Intelligence)

ACADEMIC EXPERIENCE

”One Student One Chip” Program Engineering Intern July 2022-Aug. 2022
Beijing Institute of Open Source Chip

- Completed some functions of a software ISA emulator NEMU using C language: achieved a simple debugger and implemented some functions of C library string.h and stdio.h
- Developed a multi-cycle RISC-V processor using Verilog

FPGA Verification Platform Engineering Intern July 2023-Aug. 2023
Institute of Computing Technology, Chinese Academy of Sciences

- Finished an HLS version of LeNet running on an FPGA, which was served as one of the verification examples for a FPGA-based HLS verification platform ENCORE
- Used Vitis to synthesize IP core from LeNet’s HLS design, built boot and root, started Linux on ZYNQ Sidewinder board and wrote bit stream on configurable fabric
- Trained parameters using Python version LeNet, wrote a memory mapping program to load parameters to FPGA

International Summer School Aug. 2023
Institute of Computing Technology, Chinese Academy of Sciences

- Attended lectures on cloud computing systems, SMT formal verification, neural networks and deep learning
- Participated in seminars on FPGA, Emotion AI and NeRF

PROJECTS

Computer Organization and Design Course Project
Institute of Computing Technology, Chinese Academy of Sciences

- Developed a multi-cycle MIPS processor and a RISC-V processor with Instruction Cache and Data Cache
- Implemented some functions of a DNN accelerator

Computer Architecture Project
Institute of Computing Technology, Chinese Academy of Sciences

- Co-developed a pipelined LoongArch processor using Verilog
- Supported exception handling, AXI bus interface, virtual memory, ICache

HONORS & AWARDS

First Class Academic Scholarship (Top 5%)
Pacemaker to Merit Student (Top 2%)
National Scholarship Nomination (Top 2%)
Outstanding Student Leader

SKILLS AND HOBBIES

TOEFL: 113 (R29, L30, S25, W29) Aug. 2023
Programming: C, Verilog, MIPS AL, X86 AL (Some experience with: Python, C++, Chisel, Golang, HTML, CSS)
Music: Singing, playing traditional Chinese instrument Erhu
Sports: Basketball