

Kunlin Han

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EDUCATION

- **University of Southern California (USC)** Los Angeles, CA
Master of Electrical Engineering; GPA: 4.0/4.0 Dec. 2021-Dec. 2023
- **South China Normal University (SCNU)** Guangzhou, China
Bachelor of Network Engineering; GPA: 3.78/4.0; Rank: 1/72 Sept. 2017-Jun. 2021

SKILLS

Programming Languages: Python, C/C++, Verilog, SystemVerilog, Java, Rust, SQL, x86 ASM

Libraries: Scrapy, BeautifulSoup, Requests, Django, Flutter

Cadence Tools: Virtuoso, Spectre, Xcelium

Mentor Graphics Tools: ModelSim, QuestaSim, Calibre

Tools: UNIX, Makefile, Xilinx Vivado, Intel Quartus, Git, Docker, PostGIS, ArcGIS

EXPERIENCE

- **CS Department, USC** Los Angeles, CA
Graduate Teaching Assistant May 2022-Aug. 2022
 - Partnered with Prof. Saty Raghavachary as Teaching Assistant (Course Producer) in CSCI-455X Introduction to Programming Systems Design.
 - Presented Labs to help students to understand the usage and importance of Debugging (GDB) and overview for Computer System.
 - Held Office Hours to help students with problems in Assignments and Labs.
 - Proctored and Graded Final Exam with setting clear and fair Rubrics.

PROJECTS

- **Design and Implementation of 5-stage Pipeline Processor** Sept. 2022-Oct. 2022
 - Described Data Path Unit and Control Unit for Single-Cycle CPU with basic MIPS instructions
 - Resolved problems related to Data Dependency and Early Branching.
 - Utilized RTL in Verilog and Build 5-stage (IF, ID, EX, ME, WB) Pipeline with encoded control signal, Internal Forwarding Register File, Early Branching and optional support for avoiding delay slot.
- **Full-Custom Design Layout for Arbiter with Multiplier and Divider**
 - Designed, Implemented and Drew Layout with the Cadence Virtuoso on GPDK 45nm for a ALU supporting 5-bit multiplication and 10-bit division and a 2-1 Round-Robin-based Arbiter with Multiple and Divide Request.
 - Planned, Routed, Simulated and Checked Correctness for all aforementioned components with Cadence Spectre and Mentor Graph Calibre.

LEADERSHIP AND INVOLVEMENT

- **Hope Center, Reality L.A.** Los Angeles, CA
Volunteer Mar. 2022-Aug. 2022
 - Sorted, Organized and Shelved food donations
 - Managed and Distributed cooked food by collaborating with other volunteers
 - Coordinated and Helped out in Cleaning utensils
- **Network Club, SCNU** Guangzhou, China
Vice President of Technical Department Sept. 2017-Jun. 2019
 - Managed and Recruited members in Technical Department.
 - Provided technical support to on-campus IT activities, including development and maintenance of school forum, holding CTF competition.
 - Planned and Organized members to write articles around popular computer-related topics, such as resolution of DNS, anti-phishing, to enrich students' knowledge.