

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
 - Coordinated 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 get an overview of Computer Systems.
 - Held weekly office hours to help students with problems in assignments and labs.

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 and Early Branching.
- **Full-Custom Design Layout of Arbiter System with Multiplier and Divider**
 - Designed, implemented and drew layout of a ALU supporting 5-bit multiplication and 10-bit division and a 2-1 Round-Robin-based Arbiter with multiply and divide request with the Cadence Virtuoso and GPDK 45nm.
 - Planned, routed and simulated all aforementioned components with Cadence Virtuoso and Spectre and checked DRC and LVS with Mentor Graphics Calibre.

LEADERSHIP AND INVOLVEMENT

- **Hope Center, Reality L.A.** Los Angeles, CA
Volunteer Mar. 2022-Aug. 2022
 - Sorted, organized and shelved food donations for storage to preserve food and accelerate cooking.
 - Managed and distributed cooked food with other volunteers.
 - Coordinated and helped out in cleaning utensils after food distribution.
- **Network Club, SCNU** Guangzhou, China
Vice President of Technical Department Sept. 2017-Jun. 2019
 - Managed existing members and held interviews to recruit members for Technical department.
 - Provided technical supports to on-campus IT activities, including development and maintenance of school forum, holding CTF competition.
 - Organized members to write articles about popular computer-related topics, such as resolution of DNS, anti-phishing, and published them in social media to enrich students' knowledge.