Yunhao Zhou

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Education

2022.9-present Master of EE **Shanghai Jiao Tong University (SJTU) Shanghai**

GPA: 3.86/4.0

2018.9-2022.6 Bachelor of EE **Huazhong University of Science and Technology (HUST) Wuhan**

GPA: 3.93/4.0 Rank: 1/28

Major course scores: Machine Learning：93 Digital IC：96 MCU：95 Computer Architecture：97

Fundamental of Software Technology: 95 Mixed Signal Automation：97

Skills: C/C++, Python, Verilog, TCL, Gem5, ABC, Cadence virtuoso, Quartus, Proteus

Familiar with software development based on linux server, and tool like Gitlab, Jira, Jenkins

IELTS: 7.0

Awards

2021 American college students mathematical Contest in modeling: Meritorious Winner

2020 National Mathematical Contest in Modeling for College Students: National Second Prize

2020 Outstanding Undergraduate of HUST

Experience

2024 Nvidia Internship Project python

- Develop inhouse tools and flow automation for VLSI physical design

2023 High Fanout Register Identification Algorithm in ASIC Chip Physical Design python verilog

- Implemented a verilog netlist parser for hierarchically structured Verilog netlists
- Developed a search algorithm with a time complexity of O(N) for extraction of register fanout counts

2023 X-EPIC Technology Internship Project C C++ TCL

- Conducted algorithm for X-valued combinational equivalence checking based on ABC system
- Participated in development of LEC APP in formal verification software

2023 Shanghai Innovation Center for Processor Technologies python C++ verilog

- Developed AGI Multimodal Large Models for Chip Auto-Design, co-author DAC Accepted
- Data driven logic synthesis, research BSD based CPU generation and NN based approximate logic synthesis

2022 Matrix multiplication Optimization of GMM based on Gem5 simulator

- Memory access optimization based on Gem5 simulator and the algorithm of matrix multiplication

2020 National Mathematical Contest in Modeling for College Students

- Financial loan optimization problem based on decision tree and RAROC model

2019 National Mathematical Contest in Modeling for College Students

- The Numerical simulation of the control process of high pressure tube based on differential equation