Zixuan Zhou

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EDUCATION

Peking University

Beijing, China

B.S. in Applied Physics, Department of EECS

Sep 2022-Jul 2026

Experimental Class in Electronic Information Science(Inaugural)

Last year GPA: 3.80/4.00

NO.1 Middle School affiliated to Central China Normal University

Outstanding Graduate

Wuhan, Hubei, China Sep 2019–Jul 2022

RESEARCH EXPERIENCE

Backside Power Delivery Network(BSPDN) for Carbon Nanotube FET

Tutor: Prof. Rongmei Chen

Peking University Sep 2024-Present

- Applying BSPDN to low-temperature thin-film transistors
- Novel structures of Monolithic 3D design using the knowledge in BSPDN and Carbon Nanotube FET(CNFETs)
- Experiments on novel methods to do wet etch

Internship Experience

Shanghai IC Research and Development Center (ICRD)

Shanghai, China Jul 2024–Aug 2024

Tutor: Chen Li

- Investigation on the differences between industrial and academic IC fabrication process
- Experience on large scale industrial IC fabrication process

Course Projects

- 16bit High-speed Adder Design: In the course "Digital IC and Systems", I successfully design a 16bit RCA adder and draw its layout. See the project at adder.
- Sparse Matrix-Dense Matrix Multiplication accelerator: In the course "High-level Chip Design", I develop a hardware accelerator for SpMM. See the project at SpMM.
- Boolean Circuit Matching: In the course "Modeling, Analysis and Optimization for Computing System", I develop a work using SAT tools. See the project at BCM.
- NoGo Game: In the course "Introduction to Computation", my classmate and I develop a game using C++, the whole interface is designed and programmed by myself. See the project at Nogo Game.

SKILLS

- Equipment for Device Fabrication: E-Beam Vapor System/ Scanning Electron Microscope(SEM)/ Reactive Ion Etching(RIE)/ Laser Direct Writing/ Step Profiler/...
- **Programming:** C++ / Verilog/ MATLAB/ Python(seldom used by myself)

• CAD tools: Virtuoso/Xilinx Vivado/Xilinx Vitis HLS(beginner)

• Languages: Mandarin(Native)/ English(TOEFL: 106)/ French(beginner)

• Other skills: Github/ Latex(Overleaf)

SCHOLARSHIPS AND AWARDS

• Scholarship for E-class Students 2023–2024

• Having been selected as a member of the inaugural Experimental Class in Electronic Information Science 2023–2026

• EECS Cup Table Tennis Competition Women's Singles Champion

2023,2024

• Peking University Freshman Cup Table Tennis Competition Top 8

2022

Self-assessment

I am a passionate and dedicated student, who has strong self-discipline. Motivated by my curiosity and desire for knowledge, I am also a good question-raiser and problem identifier. In addition, I am an effective communicator with a collaborative spirit, which I believe will contribute to the success of my team.

Extra-curriculum Outreach

• Captain of EECS Table Tennis team at Peking University Led the team to achieve the best rank in history.

 $Sept,\,2023\text{--}Sept,\!2024$

• Rural education support program in Jiangxi Province, 2024

Teaching ancient Chinese poetry to left-behind children

Aug, 2024

• Member of EECS Basketball team at Peking University

Sept, 2024-Present

APPENDIX

If you would like to learn more about my background and research, feel free to explore my personal website at https://zixuan-haily-zhou.github.io/