Fenze Feng

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🎓 Education Background

Shandong University, Qingdao, Shandong   2022 – Present
Bachelor of Engineering in Micro/Nano Optoelectronic Science and Technology

👥 Project Experience

1. National Intelligent Vehicle Competition – 5G Remote Control Track   Mar 2024–Dec 2024

Python, C++, Linux   Team Project, National Second Prize

- Maintained hardware architecture and conducted outdoor software debugging.
- Resolved auto-exposure issues for camera-based navigation in outdoor environments.
- Achieved 30fps high-speed autonomous navigation for smart vehicles.

2. Smart Grid Network Slicing Resource Allocation System in 5G Era   May 2024–Jul 2025

Allocation Algorithm   National Innovation Project, 2 Patent Applications Pending, Collaboration with Shandong Power Grid

- Developed a deep learning-based heuristic resource allocation algorithm.
- Implemented LSTM for traffic flow prediction.
- Achieved dynamic time-slot allocation using ACO algorithm combined with LSTM in simulations.

3. AI Research   Jun 2024–Present

Deep Learning, Python   Individual Project

- Gaze estimation: Studied the trade-off between computational resources and accuracy in gaze estimation, with plans to develop a real-time estimation app.
- Interpretability: Explored the application of Concept Bottleneck Models (CBMs) in the medical domain.
- Assisted in creating a benchmark dataset for knowledge conflicts in multimodal large models.

4. FPGA-Based RISC-V RV32I CPU Design   Feb 2025–Jun 2025

FPGA Design   Individual Project

- Designed 32-bit non-pipelined/pipelined RISC-V CPUs from scratch using Verilog.
- Designed a 200MHz 32-bit multiplier using Booth-4 encoding + Wallace Tree with 3-stage pipelining.
- Others: Clock, UART serial communication, DDS, Vending machine, etc.

♡ Awards

3rd Place (North China Region), National Second Prize, National Intelligent Vehicle Competition   Dec 2024
Provincial Second Prize, China Undergraduate Mathematical Contest in Modeling   Sep 2024
Meritorious Winner(Top 7%), Interdisciplinary Contest in Modeling (ICM)   Feb 2024
Others: Outstanding Individual in Cultural & sports activities / in Innovation & Entrepreneurship/ in Volunteer Service; 2*excellent Youth League Member; 20+ Sports Awards

ℹ Additional Information

- Language: English - Proficient (CET-4: 478 IELTS: 6.0)
- GPA: 90.17/100
- Scholarships: 8 awards including National Encouragement Scholarship, Merit-based Scholarships etc.
- Core Courses: Digital/Analog Circuits, High-Frequency Electronics, Signals & Systems, Electromagnetic Waves, Solid-State Physics, Semiconductor Physics, Micro/Nano Fabrication, FPGA Practical Projects