

Zonghua Ouyang

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Education

University of Pennsylvania
Philadelphia, Pennsylvania, United States
Master of Science

Expected Graduation: **May 2026**

Chongqing University of Posts and Telecommunications
Chongqing, China
Bachelor of Engineering, GPA: 3.70/4.00

Graduation: **June 2024**

Northern Arizona University
Flagstaff, Arizona, United States
Bachelor of Science, GPA: 3.70/4.00

Graduation: **May 2024**

Related Skills

Programming Languages: Python, MATLAB, C/C++, Java, System Verilog, Swift, Kotlin, LaTeX

Software: Altium Designer, Cadence, Vivado, Simulink, Multisim

Instruments: Oscilloscope, Waveform Generator, Multimeter, Vector Network Analyzer, LCR Meter, Logic Analyzer, Spectrum Analyzer.

Fabrication: 3D Printing, Soldering, PCB Fabrication.

Projects

Hydropower Collegiate Competition (HCC), Team of 6
Northern Arizona University

September 2023 ~ May 2024

- Won the first place of the competition.
- Built generator models and 5-bus systems using MATLAB.
- Analyzed the impact of generators to grids.

TI Cup National Undergraduate Electronic Design Contest, Team of 3 **July 2021 ~ August 2021**
Chongqing University of Posts and Telecommunications

- Won the first prize in the provincial contest.
 - Designed, fabricated, and tested a total harmonic distortion (THD) meter.
 - Developed, and debugged an Android app, which can connect to our THD meter.
 - Programed STM32, and ESP32 microcontrollers.
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Relevant Courses

- Digital Integrated Circuits
- Power System
- Electric Drives
- Computer Architecture
- Digital Signal Processing
- Introduction to Networks and Protocols
- Signals and Systems
- Principle of Communication
- Fundamentals of Computer Engineering
- Fundamentals of Linear Algebra and Optimization