


# Runhan Zhang

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🌐 <https://github.com/Runhane>



## Education

2021 – 2025  **BD, Wuhan University** Electronic Information Engineering.  
**GPA:** 3.94/4.00     **Rank:** 2/132  
**Majors:** *Advanced Mathematics* (95/100), *Linear Algebra* (88/100), *Algorithms and Data Structures* (96/100), *Principles and Interface Technique of Microcomputer* (94/100), *Communication Electronic Circuit* (97/100), *Digital Signal Processing* (91/100).

## Experience

### Competition Experience

- **National Undergraduate Electronics Design Contest**
  - Learned control algorithms like PID, LQR.
  - Studied how to get and process sensor data like lidar, camera.
  - Designed moving target control and automatic tracking systems based on Jetson Nano
- **Mathematical Contest in Modeling**
  - Applied EKF algorithm to solve location problem.
  - Combined Markov chains and Bayesian formulation to plan the rescue route

### Research Experience

- **Cambridge Intensive Programme in Machine Learning**
  - Learned Probability Theory, Linear Models, Bayesian optimization.
  - Developed an understanding of Non-parametrics and Stochastic Processes.
- **Intelligent Grasping Robot**
  - Use 3D U-Net network combined with the Mean Shift algorithm to segment the dense scene point cloud.
  - Implement SwinDRNet network to fix depth values.
- **3D Object Reconstruction**
  - Comprehend principles of SFM, MVS, Poinson Reconstruction
  - Process images with SAM model and reconstruct a single object by 3DGS

### Management Experience

- **Monitor** of 2021 Excellent Engineer Class 1
- **Assistant Class Teacher** of 2022 Excellent Engineer Class

## Skills

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Languages	■ Strong reading, writing and speaking competencies for English, Chinese. <b>CET-4:</b> 604/750 <b>CET-6:</b> 528/750
Software	■ Object Oriented Programming, Software Engineering Tools Lab, Data Structures, Programming in Python, Advanced C Programming.
Hardware	■ Microcontroller Interfacing, Electronic Circuit Analysis & Design.
Programming	■ <b>Experienced:</b> C, Python, C++, Verilog. ■ <b>Familiar:</b> Bash, HTML/JavaScript.
Tools/Applications	■ Visual Studio, MATLAB, Anaconda, Docker.
Operating Systems	■ Windows, Linux.

## Awards and Achievements

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2021-2023	■ <b>Excellent Student Leader</b> , Wuhan University.
	■ <b>Merit Student</b> , Wuhan University.
	■ <b>The First Prize Scholarship</b> , Wuhan University.
	■ <b>Enterprise Scholarship</b> , Wuhan University.
2023	■ <b>First Prize</b> , National Undergraduate Electronics Design Contest Committee in Hubei Province.
	■ <b>First Prize</b> of Dance Competition, Wuhan University.
	■ <b>Third Prize</b> of Choral Competition, Wuhan University.
	■ <b>Advanced Class</b> , Wuhan University.