





JINGDI ZHOU

Shenzhen, China

 [jingdizhou.github.io](https://github.com/jingdizhou)  candymzjd@gmail.com  [linkedin.com/in/JingdiZhou](https://www.linkedin.com/in/JingdiZhou)  github.com/JingdiZhou

EDUCATION

China University Of Geosciences(CUG)

Sep 2019 – June 2023

Bachelor of Engineering in Automation — GPA:3.5(top 30%)

Wuhan, China

EXPERIENCE

Qianxun Spatial Intelligence Inc.

July 2022 – December 2022

Embedded development test engineer(internship)

Shanghai, China

- Responsible for Linux environment use case testing of RSU and OBU in V2X (vehicle to X) products, mainly responsible for automated test platform based on PyTest and Allure framework, develop and complete automated test implementation of all test cases for OBU and RSU products.
- Assist the test team to build a fully automated test platform attached to Jenkins, design and write platform automated test code, propose and track platform related issues.
- Assist in the testing tasks of data use cases of satellite positioning module and BMW sdk software, mainly through the design of Python data analysis module and Gtest to conduct tracking tests.

BIWIN Storage Technology Inc.

June 2023 – Present

Firmware Embedded software engineer

Shenzhen, China

- SSD emmc embedded storage back-end design** : Design and develop back-end interaction between main chip and flash media, and write algorithms under related protocols.
- SSD emmc FTL(Flash Translation Layer) design** : Design address mapping algorithm and related special mechanism for flash property.

PROJECTS

Feature pyramid attention Network for Saliency object detection

March 2023 – June 2023

Graduation Project — PyTorch, Python

China University Of Geosciences

- Used **dilated Convolution** of different dilated rates to construct the **four-layer feature pyramid model** to extract multi-scale context features.
- Designed channel attention mechanism based on **SENet** network to weight different image channels based on their contribution to the outcome.
- Weighted the pixel of the image through **Spatial attention** network which constructed by Channel Attention output.
- Proposed a novel **edge preservation loss** to guide network to learn more detailed information in boundary localization.

V2X multi-threaded automation platform

September 2022 – November 2022

Internship Project(Individual) — Allure, Python, PyTest

Qianxun Spatial Intelligence

- Designed Automation test platform that attached to **Jenkins** to achieve integration work, which can realize the local automatic connection to the Linux terminal for V2X task running problems.
- Automatically read test case data and analyse test data, send and collect terminal task running result information through message queue under **multi-thread**.

PID switching power supply based on STM32

August 2021 – November 2021

Group Project — C, Keil, PID

China University Of Geosciences

- An embedded system that control the on-off of MOSFET with PWM wave output by **STM32 microcomputer**, and has **PID** negative feedback stability performance to achieve stable output of boost voltage.
- As team leader, I presided over the system analysis and task assignment. Finished the whole software development with **C** and **Keil**.

SCHOLARSHIPS&AWARDS

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|---|------------|
| • National College Students electronic Design "TI Cup" Competition; Second Prize | 2021 |
| • The 7th "Delta Cup" International Green Intelligent Manufacturing Competition; Second Prize | 2021 |
| • The 13th "Huazhong Cup" College Students Mathematical Modeling Challenge; Third Prize | 2021 |
| • Scholarship for Engineering Excellence, CUG | 2020, 2021 |

SKILLS SUMMARY&INTEREST

Technical: Python, Java, C/C++, HTML/CSS, Shell, LaTeX

Technologies/Frameworks: Linux, PyTorch, GitHub, Git, Numpy, Pandas, HuggingFace

Languages: Cantonese(Native), Chinese(Native), English(Advanced)

Interest: Reading, Traveling, Playing badminton