Peiwei. Zhu

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EDUCATION

New Energy Science and Engineering, *undergraduate*   2022-2026
Changzhou Institute of Technology, Changzhou, China

TEACHING EXPERIENCE

Teaching Technology Department's Student assistant
The Information Construction and Management Center, CIT

- The maintenance and daily inspection of teaching equipment such as cameras, projectors, the large screens of intelligent computers, air conditioners, computer rooms, servers, etc.
- Maintain experimental equipment, using oscilloscopes, adjustable power supplies, voltmeters, etc., to locate the faulty position of the equipment and provide a maintenance plan.

The Cultural and Art Center's Club Service Center Project
Establishment Department Student assistant, CIT

- Responsible for coordinating the materials of 97 student clubs across the school.

Open Source Promotion Plan, Chinese Academy of Sciences & Huawei
The initial adaptation of Automotive Grade Linux on openEuler Embedded, CAS

- Automotive Grade: Implement the integration of the following middleware on OpenEuler Embedded, supporting QEMU ARM64 and a hardware platform, and enabling communication among more than two nodes.
- Adapt the basic functions of AGL to the openEuler Embedded platform, and it can run an instrument panel application.

Research Experience

BB8-Spherical Robot Deep Learning PID Control Strategy, *MIT, SPOC*
Team Leader [Lasted 3 Months], MIT Blended learning, SPOC, Remote   2022.10

- Design, modeling, framework construction.
- CNC printing, PID, LQR parameter tuning.
- The final design adopts acrylic ball shell printing, transparent layer, Micro Python replaces graphics.
- The project received the highest scholarship of $600 from MIT's SPOC program in 2022.

2024 Snowball Project: NXP Single Board Porting *openEuler_embedded SIG*
Team fellow [Lasted 12 Months] openEuler, China's top open-source organization, Linux distribution (with a 50% market share in the China)   2023.10-2024.10

- Team fellow in three-person group highest contribution rate.
- Participated in the project of migrating the domestic operating system openEuler to the industrial control computer NXP-imx8, collaborating with experts from *TD Tech* and *Hisilicon* demeanor.
- Familiar with MobaXterm, Ubuntu 22.04, and WSL2 development environments, and proficient in Bitbake language and Yocto framework.

Honors & Awards

National Robot Competition ROBOCON China first year third prize   2024
Reading Star of Changzhou Institute of Technology 2024   2024
openEuler Nanjing User Group Ambassador   2023

| Ye Sheng Tao Composition Competition, Jiangsu First Prize | 2022 |

Grants Awarded

Changzhou Institute of Technology Overseas Exchange Scholarship &	
Jiangsu Provincial Government Scholarship 2024:	20,000 RMB
2023 NEC Open-Source Team Contribution Award:	10,000 RMB
2022 MIT Blended Learning SPOC Scholarship:	600 USD

RELATED PROFESSIONAL SKILLS

Computer Skills: C++, Python, MATLAB, Shell, Bitbake, COMSOL Multiphysics, MobaXterm, Vim, MayCad, TIA Portal V20, WinCC Explorer, Fusion 360, Blender, JLCPCB EDA and Adobe Premiere

Laboratory Skills: computer-aided design (CAD), clean room experience, SEM imaging, PVD ion evaporation, Programmable Logic Controller (PLC), principles and techniques of single-chip microcomputers, embedded control principles (STM32, ESP32-S3), Open-source operating system, openEuler24.03, Ubuntu 22.04, WSL2, server QEMU simulation environment, proficient in operating Yocto cluster deployment, FPGA, RTOS (Zephyr, Rt-thread, openEuler_Embedded)

COURSEWORK

SYB: start your business, Positioning communication, project management, feasibility analysis, A+

PLC: RS485, RS232 Siemens equipment Siemens 1500 public data control distribution cabinet, (93/100)

SCM: Principles and Techniques of Single-Chip Microcomputers,

Keil 5, Keil MDK 6 VSCode, STM32CubeMX, AD, Proteus v8

Academic and Professional Experience

ISCAS (Institute of Software, Chinese Academy of Sciences) 2023

Open-Source Summer, Development of a communication control gamepad based on Nearlink technology, HI Euler Pi / Pi 5, PS2.

Deu Perovskite Research Institute, SPS Perovskite Yangzhou 2024

PVD photovoltaic Solar glass coating equipment manufacturer, PLC Program porting, cross-platform porting and development of application layer Linux software.

Academic and Professional Membership

● IEEE (Institute of Electrical and Electronics Engineers, IEEE)	2024-2025
● openEuler ambassador/developer RT-Thread developer	2024-present
● new_energy_coder_club (Gitee2025 No.24) maintainer/founder	2022-2025

Research and Teaching Interests

Enthusiastic about challenging work, focusing on the operating system kernels and complex robot engineering, like embedded.

Community Service, Volunteer Work, and Extra‑Curricular Activities

The straw painting street artist has donated paintings to the community and given art lessons to children; Sometimes writing.

Additional Relevant Skills and Languages

Chinese (Native) English (Fluent in speaking; proficient in writing)

Other

Design in Industrial and Product Design, *SPOC, A+*	2024 Summer
The University of Sydney, Sydney, NSW, Australia	
Research Assistant in Robotics, *RA*	2025 Present
Tsinghua University, Institute for AI Industry Research, Air, China	2025.5 -2025.7
Institute of Software, CAS, *Developer, Remote*	2025 Summer