

Jinqi Wei

Robotics Researcher | changshanshi@outlook.com | weijinqi.com

EDUCATION

Southern University of Science and Technology (SUSTech)

Shenzhen, China

Bachelor of Engineering in Robotics Engineering

2018/8 – 2022/7

- Advised by Prof. Chaoyang, Song and Study in [Bionic Design + Learning Lab](#).
- SUSTech **First Prize** in Comprehensive Design for the 2021-2022 Academic Year (1/33).
- **Outstanding Undergraduate Graduation Design** of the SUSTech in 2022.

WORK EXPERIENCE

PaXini Technology (Shenzhen) Co., Ltd.

Shenzhen, China

Robotics Software Engineer

2023/10 – 2025/7

- Developed humanoid & Teleoperation algorithm, data collection and imitation learning.
- Mentored junior engineers and contributed to the team's growth through technical interviews.
- PaXini 2024 **Starlight Award, 1st**. (Recognizing outstanding employees whose perform far beyond their job level)
- PaXini 2024 Performance Award, 2nd.
- PaXini 2024 **Outstanding Employee**.

Dorabot Inc.

Shenzhen, China

Robotics Software Engineer

2022/8 – 2023/9

- Developed industry warehouse (de)palletizing application.

RESEARCH & PROJECT EXPERIENCE

PaXini Technology (Shenzhen) Co., Ltd.

Shenzhen, China

Robotics Software Engineer

Humanoid Teleoperation

2023.12 – 2025.7

- Designed and implemented full-stack teleoperation software framework for whole-body teleoperation. Demonstrated at World Robot Conference 2024.
- Built a complete Requirements-Verification-Development-Test-CI/CD process and deployed to a 70-person development team.

Multimodal Data Collection for Imitation Learning

2025.2 – 2025.7

- Used multi-model data collection devices and designed a data process pipeline to collect manipulation information for robot imitation learning. Deployed in PaXini Super EID Factory.
- Fine-tune(full) openpi models on cloud server and inference locally to control different robots. Applied to the Procter & Gamble (P&G) production process.

Dorabot Inc.

Shenzhen, China

Robotics Software Engineer

2022.7 – 2023.9

- Developed large-scale (de)palletizing application using heavy-duty KUKA robots and Mixed Integer Programs (MIPs) for industry automated warehouses, achieving a processing speed of up to 1200 boxes per hour per single robot.
- Maintained a (de)palletizing showcase and algorithm verification platform using Yaskawa robots with containerized CI/CD, enabling 24/7 continuous operation.

Ningquan Science and Technology Inc. & SUSTech. Comprehensive Design

Shenzhen, China

Algorithm Engineer

Design Science for Reproducible and Shareable Robot Learning

2021.9 – 2022.6

- Proposed a novel method for reproducible and shareable robot learning by focusing on rich and intuitive representation, processing, and storage of manipulation data. This was achieved through the

[DeepClaw](#) system that features a unified data storage format, easily accessible web-based software, and open-source, low-cost hardware for teleoperation and data collection.

- Published papers on method and tools from this project in ICARM 2024 and Materials & Design. And used in ME336 Collaborative Robot Learning from 2022 to 2024.

BionicDL Lab, SUSTech

Shenzhen, China

Algorithm Engineer

2021.1 – 2021.6

- Course Project (ME336 Collaborative Robot Learning). [[GitHub Repo](#)]
- Designed and implemented an automated robotic waste sorting line with visual recognition. Improved sorting efficiency with a throw method rather than a traditional pick-and-place approach.

DJI RoboMaster University Championship

Shenzhen, China

Electronics Hardware Team Lead

2019.6 – 2020.10

- Developed robot [main control board](#), [supercapacitors and power control modules](#) for the whole robot control and communication.
- RoboMaster2020 University Championship **National Third Prize**

Mechanical Team Member & Financial Manager

2018.10 – 2019.5

- Contributed to the structural design of the infantry robot (wheeled robot that fires high-speed spherical projectiles).
- Responsible for full-season budget (Over 200,000 CNY / 30,000 USD) planning and management.
- RoboMaster2019 South China Regional Competition, **Third Prize**

OPEN SOURCE CONTRIBUTIONS

[Robook](#) (Robotics Handbook)

Founder, Maintainer

2023.4 – present

- A robotics handbook for beginners. Contents include introductions to robotics, robotics competitions, and undergraduate research opportunities. Achieved 40000+ views and comments.

[ROS2 Chinese Documentation](#)

Maintainer

2024.3 – present

- High-quality, manually proofread ROS2 Chinese documents with annotations.

Others

- Developed Python libraries used in robotics software development released on [GitHub](#)
- Contributed to robotics communities such as ROS2, IsaacLab.

PUBLICATION

- T. Wu, Y. Dong, Y. Xiao, **J. Wei**, F. Wan and C. Song, "[Vision-based, Low-cost, Soft Robotic Tongs for Shareable and Reproducible Tactile Learning](#)", 2024 International Conference on Advanced Robotics and Mechatronics (ICARM 2024).
- T. Wu, Y. Dong, X. Liu, X. Han, Y. Xiao, **J. Wei**, F. Wan, C. Song, "[Vision-based tactile intelligence with soft robotic metamaterial](#)", Materials & Design.

SKILLSET

Robotics & Systems

- Robotics platforms: Franka, UR, KUKA etc.
- Operating systems: Linux, Mac, Windows.
- Systems & tools: ROS2. Server, Website and Web service maintenance.

Software & Programming

- Languages: Python, C/C++, JS, Matlab.
- Tools: Docker, Git-based project management.

Mechanical & Electrical Design

- SolidWorks, AutoCAD. 3D Printing. Altium Designer, EasyEDA.