

Contact

miracle.techlink@gmail.com
2254018@tongji.edu.cn
miracle-techlink.github.io
github/miracle-techlink
Shanghai, China

Affiliations

Tongji University
PKU DLIB
Zhiyuan Robotics

Research

Embodied AI
World Models / VLA
Medical Robotics
AI Infrastructure

Languages

Chinese (Native)
English (CET-6 550+)

Skills

Python & PyTorch
C++ & MATLAB
ROS / SLAM
SolidWorks
LaTeX / Git
Docker / Linux
LLM Fine-tuning
RLHF / RL (DQN/SAC)

Profile

Embodied AI researcher at Tongji University (EE/ME, 2022–2027), working at the intersection of VLA foundation models, test-time training, and surgical robotics. Research intern at PKU DLIB under DeepSeek core scientists and ACL Best Paper authors. Co-founder of AI robotics studio with Zihao (Bilibili creator). Passionate about turning research into real-world embodied products.

Experience

LLM Foundation Model Research Intern — PKU DLIB Feb 2025 – Jul 2025

- LLM efficient reasoning: native sparse attention mechanisms & test-time training (TTT)
- Inference-time compute optimization; mentored by ACL Best Paper authors

Co-founder — AI Robotics Studio (Zihao Studio) Jun 2024 – Present

- Open-source robot hardware projects with Zihao (Tongji, Bilibili creator)
- Technical demos, educational content, embodied AI commercialization

Research Intern — RL & Robotic Control — Sino-German Lab, Tongji × Siemens Nov 2023 – Jun 2025

- Replaced PSO with DQN-based RL for robotic arm trajectory control
- Built Three.js 3D visualization; completed SITP project certification

Solutions & Technology Intern — China Telecom Tianyi Cloud Jul 2024 – Sep 2024

- Cloud benchmarking, technical bid documentation; practitioner certified

Education

B.Eng. Electronics & Mechanical Engineering Sep 2022 – Jun 2027

Tongji University, Shanghai Research: Embodied AI & Medical Robotics

Research & Projects

GDN-Memory: Constant-Footprint Embodied Memory ICRA/CoRL 2026
Gated DeltaNet hierarchical memory (256 KB, <1ms) in Genie Envisioner Slow-Fast VLA.
3-layer: Physical/Object/Behavioral. Tongji CS × PKU DLIB × Zhiyuan Robotics.

stEVE: Endovascular Surgical Robot Platform Tongji × PKU DLIB, 2026
CTA → SOFA FEM → RL nav (SAC/PPO) → biplane DSA. Diffusion trajectory planner on
synthetic data to overcome clinical data scarcity.

AGV Reception & Inspection Robot — Tongji 2024
Dual-brain AGV deployed at Tongji. Led Arabic NLP pipeline (ASR/TTS) for Middle East.

Medical AI Consultation Platform 2024–2025
Multimodal LLM (3-stage fine-tuning, CT/MRI alignment, MoE routing), Coze workflow,
validated with hospital feedback.

LeRobot Embodied / tri.me Hackathon 3rd Place, Xiaohongshu, 2024
Home-care robot using HuggingFace LeRobot; featured in official HuggingFace docs.

Smart Car — Provincial Competition Provincial Silver, Lead, 2022
SolidWorks design, MATLAB cam simulation, laser cutting, custom charging circuit.

Selected Awards

H Prize	MCM/ICM — Tennis momentum (PCA, AHP-TOPSIS, A-LSTM)	2024
Natl. 1st	Huashu Cup Intl. — Nuclear wastewater (POM-ROMS+ARIMA)	2023
Prov. 1st	CUMCM — Vegetable pricing (DP+XGBoost+Gurobi)	2024
Univ. 1st	Tongji Math Modeling — Battleship layout (MC + GA)	2023
Natl. 2nd	Huashu Cup — Color matching (K-M + NSGA-II)	2023
Prov. 2nd	Engineering Innovation — Thermoelectric smart car	2022
Univ. Silver x2	Internet+ — Multimodal AGV robot / XGene biomedical LLM	2023/24
Top 34%	Alibaba Tianchi — Molecular property prediction (750/2200)	2024