

Linhao Bai

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EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science, **GPA: 4.0**

Atlanta, GA

Aug. 2024 – May 2026

- Relevant Coursework: **CS7638 AI for Robotics(A)**

Chongqing Jiaotong University

Bachelor of Engineering in Civil Engineering

Chongqing, China

Sep. 2018 – June 2022

EXPERIENCE

SEER Robotics

Project Manager

June 2023 – July 2024

Shanghai

- Managed technical support for **35** international clients, resolving critical issues and streamlining project delivery
- Led technical operations at international trade shows, setting up booths, demonstrating products, and gathering market intelligence
- Collaborated with URG engineers in Germany to develop a safety service type mobile robot prototype within **7 days** from scratch, demonstrating adaptability and technical capability
- Contributed to groundwork for potential **multi-million** contracts with Tesla and URG, supporting long-term collaborations

SEER Robotics

Software Engineer

June 2022 – July 2023

Shanghai

- Designed and developed a robot auxiliary system using the Qt framework, incorporating a file system for efficient data management, a secure network system for reliable communication, and integrated customer authorization system
- Developed plugins for the main robot ROS like system, leveraging Protocol Buffers (Protobuf) for efficient inter-service communication

PROJECTS

Safety AMR Project for Tesla

Project Engineer

Nov 2023 – July 2024

Austin, USA

- Led the Autonomous Mobile Robot (AMR) project from initiation to U-certification design phase for Tesla in Austin, ensuring strict safety, reliability, and performance standards.
- Supervised POC robot manufacturing, coordinated UL certification process, and managed transition to full-scale production while maintaining high-quality standards.
- Oversaw logistics, on-site acceptance testing, and implementation of SOPs for AMR deployment in Tesla's Gigafactory, ensuring operational integration and performance optimization.

Dexterous Manipulation Research at STAR Lab, Georgia Tech

Research Assistant

Sep 2024 – Present

Atlanta, GA

- Developed a ROS-based hardware control framework integrating Kinova arm, PSYONIC hand, Allegro hand, and LeapHand for dexterous manipulation tasks.
- Implemented reinforcement learning with IsaacGym and PPO for in-hand rotation tasks, utilizing domain randomization and domain adaptation to achieve sim-to-real transfer, successfully deploying on the Allegro hand.
- Explored Koopman operator-based methods as a replacement for the policy actor, improving control efficiency and interpretability in robotic manipulation.

SKILLS

Programming Languages: Python, Java, C++, Go, JavaScript

Frameworks & Libraries: Qt, Django, Flask, ROS, Pytest, PyTorch, Scikit-learn, NumPy, Pandas

Big Data & Distributed Systems: Kubernetes, Docker, Hadoop, Spark, Flink

Databases & Caching: MySQL, PostgreSQL, Redis

Web Development: RESTful APIs, HTML, CSS, JavaScript

Other Skills: Git, GitHub, Linux