# Lening Li

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## EXPERIENCE

**Senior Software Engineer** — Oct. 2022 – Present
*Symbotic* — Wilmington, MA

- Designed and deployed scalable multi-agent path-planning and coordination algorithms for production warehouse robots (C++).
- Improved robot robustness via advances in control, state estimation, and fault-tolerant behavior design.
- Optimized system-level performance across large autonomous robot fleets.

**Robotics Lab Advisor** — Dec. 2025 – Present
*Harvard University* — Cambridge, MA

- Advise student research projects in robotics, with emphasis on learning-based planning, control, and experimental rigor.

**Senior Software Engineer** — Oct. 2021 – Aug. 2022
*Berkshire Grey* — Bedford, MA

- Led development of perception and manipulation algorithms for picking previously unseen SKUs using ROS, C++, and Python.
- Reduced end-to-end system latency by redesigning inter-process communication pipelines.

## EDUCATION

**Carnegie Mellon University** — Pittsburgh, PA
MBA Candidate

**Worcester Polytechnic Institute** — Worcester, MA
Ph.D. in Robotics Engineering
M.S. in Robotics Engineering — M.S. in Computer Science

**Harbin Institute of Technology** — China
B.S. in Computer Science (Summa Cum Laude) — B.A. in English Language & Literature

## SKILLS

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| **Robotics & Learning:** | Motion Planning, Optimal Control, Reinforcement Learning |
| **Robotic Systems:** | ROS, Distributed Robotic Systems, Real-Time C++ on Linux |
| **Machine Learning:** | PyTorch, TensorFlow |
| **Languages:** | English (Fluent), Chinese (Native) |

## ADDITIONAL

Publications in top robotics, control, and AI venues (ICRA, CDC, ACC, IJCAI, IEEE T-ASE)
Google Scholar: `https://scholar.google.com/citations?user=KWUJ10wAAAAJ`
GitHub: `https://github.com/leelening`
Member, IEEE Robotics and Automation Society