

# Lening Li

Wayland, MA, USA

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## SUMMARY

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Senior Robotics Software Engineer with a Ph.D. in Robotics Engineering and a strong track record deploying learning- and control-based autonomous systems at industrial scale. Expert in motion planning, optimal control, and reinforcement learning for safety-critical robotics, with experience spanning production systems and academic research advisory.

## EXPERIENCE

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### Senior Software Engineer

Oct. 2022 – Present

*Symbolic*

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

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### Worcester Polytechnic Institute

Worcester, MA

Ph.D. in Robotics Engineering (2022)

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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<b>Robotics &amp; Learning:</b>	Motion Planning, Optimal Control, Reinforcement Learning
<b>Robotic Systems:</b>	ROS, Distributed Robotic Systems, Real-Time C++ on Linux
<b>Machine Learning:</b>	PyTorch, TensorFlow
<b>Languages:</b>	English (Fluent), Chinese (Native)

## ADDITIONAL

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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