

LOH LI LIN

Mechanical Design Engineer · Robotics Production & Field Operations

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PROFILE

Mechanical design engineer across robotics production and field deployment. Ran build validation and burn-in at LionsBot; deployed robots, trained operators and turned field data into root-cause fixes at Rolo Robotics. AI-native: builds and ships tools with Claude Code.

WORK EXPERIENCE

Rolo Robotics

2024 – 2026

Operations & Systems Engineer

- Deployed robots at customer sites; fed field issues and customer feedback back to engineering as prioritised fixes
- Consolidated chat alerts, ClickUp, order and robot-log data into one fleet issues tracker, queryable by Claude via MCP
- Built a root-cause dashboard joining vision-system camera events, AI photo classification and telemetry to isolate a recurring fault
- Led operator training: one role-based knowledge base plus a recovery simulator to practise before going live

LionsBot International Pte. Ltd.

Sep 2021 – 2024

Mechanical Design Engineer (Production)

- Ran validation checks and burn-in testing on every build; field validation testing in Japan
- Led the production QC team; maintained build, test and burn-in logs to trace defects to root cause
- Managed version control of CAD, drawings and wiring diagrams released to production
- Redesigned tanks for rotational, vacuum and injection moulding, cutting product cost by over 50%
- Designed electronics tray, wiring harnesses and a patentable vacuum bag with bag detection

QIQ Global Pte. Ltd.

Jul 2020 – Jan 2021

Mechanical Design Engineer Intern

- Developed a 250 kg-payload mecanum-wheel cargo robot from concept; sheet-metal drawings for fabrication

EDUCATION

Singapore Institute of Technology – Newcastle University

2018 – 2021

- B.Eng (Hons) Mechanical Design and Manufacturing Engineering · GPA 4.49 · Best Design Award (Design of Mechanical Systems)

Singapore Polytechnic

2015 – 2018

- Diploma in Financial Informatics · IDA iPrep Scholarship (IMDA)

SKILLS

Mechanical	SolidWorks (surfacing, sheet metal), DFM for moulding, wiring harnesses
Production	Validation, burn-in, QC, build and test logs, version control (Git)
Field ops	Robot deployment, operator training, root-cause analysis, maintenance
AI & software	Claude Code, Claude API (vision), MCP, Python, TypeScript, Next.js, SQLite
Controls	Arduino, Siemens PLC, C, MATLAB