# JAMES AKL james-akl@outlook.com · linkedin.com/in/james-akl · jamesakl.com

Expertise in **robotics**, **AI**, and **autonomous systems**. Experienced in **R&D** and **project leadership**. Skilled in **software**, **mathematics**, **algorithms**, **system design**, **engineering**, and **testing**.

#### **EXPERIENCE**

#### **Robotics and Al Institute**

Research Scientist / Roboticist (2024/10 - Present) · Cambridge, MA

R&D in robotics, computer vision, deep learning, and mobile manipulation.

Design/implement more general algorithms/models in a robotics development team.

Own/oversee software within team (infrastructure, on-robot development, testing, integration, ...).

#### **Amazon Robotics** · Innovation Lab

Postdoctoral Scientist / Project Lead (2024/03 – 2024/10) · Westborough, MA

R&D in robotics, deep learning, perception, control, manipulation, and human-robot interfacing. Lead a prototyping team and develop robotic fulfillment systems, showcased in live demos. Oversee software/system repeatability and maintainability to keep prototypes fit for handoff. Develop core infrastructure, mentor juniors, and run evaluations (tactile sensors, robot hands, ...).

Applied Scientist (2023/08 – 2024/03) · Westborough, MA

**R&D** in robotics, 3D perception, machine learning, task and motion planning, and control. Develop perception algorithms/models and manipulation skills for autonomous logistics.

For publications/patents see LinkedIn or Google Scholar.

### **EDUCATION**

**PhD in Robotics Engineering**  $\cdot$  Worcester Polytechnic Institute  $\cdot$  2023

Emphasis in perception, control, planning, learning, manipulation, and autonomous robots. Participate as Research Mentor in NSF REM and as R&D Trainee in FORW-RD NRT programs.

## **SKILLS**

## SERVICE

**Reviewer** (2021/06 – Present)

Review research for journals (IJRR, RA-L, T-ASE, TMECH) and conferences (ICRA, IROS, CDC, ISRR, Humanoids, CASE, SSRR) in robotics, AI/ML, control, automation, and mechatronics.

**Updated**: September 2025