

Yunkyung Kim

Senior UX Designer

Amazon Robotics

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Education

KAIST, Ph.D. in dept. of Industrial Design

- Thesis title: Human-Robot Social Distance in Interaction Design for Robot Acceptance
- Product & Environment System Design Research Lab. Prof. Myung-suk Kim

Daejeon, Korea

2/2008-2/2013

Korea National Open University, Korea, BBA. In dept. of Business Administration

Daejeon, Korea

3/2010-2/2013

KAIST, B.S. in dept. of Industrial Design

Daejeon, Korea

3/2004-2/2008

Work Experience

President, Korean Robotics and AI New England Society (K-RAINES)

- Non-profit organization for Korean professionals working in the Robotics and AI fields

Newton, MA

4/2025-Current

Senior UX Designer, Amazon Robotics

- Designing for Ecosystem Resilience: The Systemic Model for Robot Issue Management
 - Led the systemic design to unify the fragmented “off-tool” ecosystem into a single, streamlined platform experience.
 - Partnered with System Architecture team to define and instrument technician performance data, optimizing troubleshooting flows and reducing Mean Time to Resolution.
- Shifting Paradigm: Defining North Star Vision for Robot Issue Management
 - Defined the North Star vision and experience outcome for robot issue management, driving alignment across Executive, Product, and Engineering leadership toward auto-recovery and minimal human intervention.
 - Established measurable success criteria to govern the product roadmap, ensuring all feature launches advanced the shift to a more autonomous system.
- Language of Robotics: Standardizing HMI and Scaling Design Excellence
 - Championed design excellence by architecting the HMI Design System and UX Design Pattern Guidelines for all robotic equipment, resulting in improvements to technician experience consistency.
 - Owned the design and standardization of Teach Pendant UI for complex, new generation robotic workcell, translating hardware constraints into a scalable interaction model.
- Human-Robot Interaction Design: Validating Non-Verbal HRI Cues
 - Developed interaction storyboards and design specifications for key human-robot collaboration scenarios, driving alignment between design and engineering team.
 - Led targeted user testing and validation studies focused on non-verbal communication, specifically assessing comprehension and trust in robot light pattern design.

North Reading, MA

8/2022-Current

Principal UX Designer, iRobot

- Physical robot UX and mobile app UX design

Bedford, MA

9/2020-7/2022

Senior. Human Factors Engineer, KBR, NASA Johnson Space Center

- Joint Augmented Reality Visual Informatics System (JARVIS)

Houston, TX

7/2019-9/2020

- Metrics Development for Methods for Human Factors Design and Evaluation of Habitat/Vehicle

Human-Robot Interaction Designer, SGT, NASA Ames Research Center

- Astrobee (<https://www.nasa.gov/astrobee>)
- Robotic Allocation for Rovers

Moffett Field, CA
4/2016-7/2019

Senior User Experience Designer, SAMSUNG Electronics Co., Ltd.

Seoul, Korea
3/2013-3/2016

Visiting Researcher, University of Wisconsin-Madison.

- Human-Computer Interaction Lab, dept. of Computer Science | Adviser: Prof. Bilge Mutlu

Madison, WI
9/2011-12/2011

Visiting Researcher, NASA Ames research center

- Exploration Ground Data System (xGDS) data exploration tool development

Moffett Field, CA
3/2011-8/2011

Editorship & Academic Organization

Program Committee, International Conference on Human-Robot Interaction

2024-2026

Associate Reviewer, IEEE RO-MAN

2017, 2019-2024

Topic Editor, Contextualized Affective Interactions with Robots in Frontiers in Robotics and AI

2020

Guest Associate Editor, Frontiers in Psychology

2020

Review Panel, NASA Space Technology Graduate Research Opportunities (NSTGRO) 20

2020

Student Design Competition Chair, International Conference on Human-Robot Interaction

2020