Meng Shi | Senior Product Designer

Portfolio: https://meng-shi.github.io | **Linkedin:** https://www.linkedin.com/in/mengshi91
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Experience

Intel Labs | Intel corporation | 2015 - Current

Senior Product Designer, Researcher | 2019 - Current | Santa Clara, CA

Lead design and frontend development of MARIE (Multimodal Activity Recognition in Industrial Environment), an AI/LLM driven performance support tool that provides assistances to technicians in manufacturing fabs. Furthermore, explored how to apply LLM to different domain applications.

- Improved technicians' performance by 200%.
- Scaled up to multiple fabs (ATTD fab AZ, ATM fab Vietnam) across different countries.
- Embedded intelligent dialogue system into the prototype to significantly improve users' participation rate through multimodal data collection methods.
- Facilitated developer to evaluate their model performance through explainable AI user interface. (Publication)

Lead UX design of Ambient PC, a novel concept PC with a second side screen that stands-by, from scratch to reality.

- Lead design collaboration across global teams, host design sync up meeting with product manager, hardware, software, manufacturing, and dialogue to push product development process.
- The PC Prototype was highlighted in Computex 2019 and reported by 20+ news outlets.(PC world report)

Product Designer, Prototyper | 2015 - 2019 | Hillsboro, OR

Lead design for Kid Space, an augmented reality (AR) AI platform for children learn through play with virtual assistant agent and deployed in elementary schools and in homes. (Publication)

- Initiated the project concept from 20+ ideas from field study.
- Designed and prototyped the product through Adobe XD, Arduino, Unity, etc.
- Improved children's collaborative problem solving capabilities.

Lead design for Story Maker & Code Maker, a tangible interaction platform uses low-cost RFID to sense and learn. (Publication)

- Utilized Web app and Android App to enable kids to learn coding through play.
- Delivered to Lego as support of their powered-up education products.

Skills Summary

2D Design: Figma, Adobe Creative Suite (Adobe XD, Photoshop, Premiere, After effect, etc.), Procreate, Persona, Journey map, Wireframe, Data visualization, Voice User Interface (VUI)

3D Design: Blender, Rhino, Nomad, 3D Printing
Prototyping: React, HTML, CSS, JavaScript, Unity, C#
Research: Field study, Brainstorm workshop, Participatory design, Heuristic Analysis, Think-aloud, Survey Design

Education
Master of Tangible Interaction Design (MTID)
Carnegie Mellon University, Pittsburgh, PA
Bachelor of Arts (BA) in Information Design | Bachelor of Economics (BE)
Tsinghua University, Beijing, China

Publications | Patents | Awards | Exhibition ([Google Scholar](#))

Selected Papers (5+published)
M Shi, C Savur, E Watkins, R Manuvinakurike, GG Mejia, R Beckwith, G Raffa. "An Explainable AI User Interface for Facilitating Collaboration between Domain Experts and AI Researchers." *eXplainable Artificial Intelligence Conference*, Vol-3554, 2023 ([link](#))

G Raffa, IJ. Ndiour, R Beckwith, **M Shi**, RL. Perry, BW. Bair, P Kisa, M Kisa. "MARIE - Multimodal Activity Recognition in Industrial Environments." *Intel Assembly & Test Technology Journal*, vol.22, 2019

GJ Anderson, S Panneer, **M Shi,** CS Marshall, A Agrawal, R Chierichetti, G Raffa, J Sherry, D Loi, LM Durham. "Kid Space: Interactive learning in a smart environment." In *Proceedings of the Group Interaction Frontiers in Technology*, pp.1-9. 2018 ([link](#))

Selected Patents (30+ granted)
Methods and apparatus to operate close-lid portable computers. B Cooper, A Magi, A Kumar, G Raffa, W March, M Bartscherer, I Lazutkina, DY Kong, **M Shi**, V Paranjape, VG Nayagam, GJ Anderson. US Patent 11,379,016, 2022

Technologies for structured media playback. **M Shi**, GJ Anderson, KW Bross, J Gaffrey, T Rider, PN Olanrewaju. US Patent App. 15/283,325

Computer vision and sensor assisted contamination tracking. **M Shi**, CS Marshall, GJ Anderson, S Paneer, AG Lamarca, MJ Abel. US Patent 10,275,659

Selected Awards (6+)
Intel Labs Gordy Awards nomination: Outstanding Innovation
Intel Client Computing Group Recognition Award
Systems and Software Research Division Recognition Award

Exhibition
GeoCity | Beijing Design Week (Beijing, China) and Ars Electronic Arts Festival (Linz, Austria)
Augmented Reality Animation Map | Artosino Gallery (New York, NY)