

Amal Koshy

Industrial Designer

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About

Industrial designer and technology enthusiast with 3+ years of experience designing and delivering products in healthcare, consumer electronics and home appliances, specialising in human centric experiences integrating hardware, software and services considering sustainability and business goals. Strong cross collaborator leading end to end product development from user research to manufacturing.

Skills

Industrial Design : User research, Concept development, Human factors and ergonomics, Prototyping, User testing, DFA/DFM

Software Skills : Autodesk Fusion 360, Shapr3D, Keyshot, Procreate, Adobe Suite

Prototyping : 3D printing, foam modelling, paper mock-ups, woodworking, metalworking

AI Tools : Vizcom AI, Krea, Gemini Nano Banana, Kling AI

Experience

Industrial Designer	Prar Inc.
Bangalore, India	November 2024 - Present

- Spearhead the development of an integrated 5 product primary healthcare ecosystem designed to improve patient experiences and streamline clinical workflows for individuals living with chronic conditions.
- Multidisciplinary collaboration across 4 teams spanning design, engineering, regulatory teams and manufacturing to deliver technically feasible, and compliant(FDA) healthcare solutions following cohesive design language and principles.
- Lead the product development process through user-centered design, prototyping and validation across 3 countries - US, China and India.
- Coordinated with manufacturing partners in China through regular on-site visits to accelerate development timelines and support production.
- Establish product development strategies that contribute to business growth, product scalability, and long-term market positioning.

Industrial Designer (Part-time)	Vital Things
Trondheim, Norway	June 2023 - June 2024

- Contributed to the design and development of one of the world's first contactless patient monitoring and visualization systems, enabling healthcare professionals to monitor patients without requiring wearable sensors.
- Defined design directions that balanced usability, aesthetics, and development while addressing the needs of healthcare professionals and patients by conducting user interviews and user testing.
- Produced design deliverables including concept visualizations, CAD models, and product specifications to support product development activities.

Industrial Design Master Thesis	LEGO
Billund, Denmark	January 2024 - June 2024

- Designed modular components for the LEGO Technic platform to simplify complex mechanical systems and make advanced building experiences more accessible to younger children.
- Facilitated iterative development through close collaboration with LEGO's prototyping team and creative director.
- Developed and tested physical prototypes to evaluate engagement, usability, and learning outcomes.
- Delivered design concepts that balanced educational value, play experience, and product feasibility, following LEGO's system in play.

Industrial Design Intern	Core Experience
Bangalore, India	January 2022 - July 2022

- Designed a collection of modular furniture products focused on delivering a premium user experience while balancing aesthetics, functionality, and manufacturability.
- Established and maintained a cohesive design language across multiple products to ensure visual consistency and product line identity.
- Produced design concepts, 3D models, prototypes and visualizations to communicate design intent and support decision-making.

User Experience Design Intern	MistEO
Thiruvananthapuram, India	May 2020 - August 2020

- Designed a mobile weather app aimed at improving accessibility and comprehension of weather information for diverse user groups in India.
- Conducted user research to identify behavioural patterns and information needs across different demographics.
- Developed data visualization concepts and interaction patterns to transform complex datasets into intuitive user experiences.
- Produced high-fidelity prototypes in light and dark modes to validate usability and visual consistency.

Education

Master's in Industrial Design

Trondheim, Norway

Norwegian University of Science and Technology (NTNU)

August 2022 - June 2024

Specialization: Healthcare Innovation, Human-Centered Design, Service Design, Strategic Design, and Design for Manufacturing & Assembly.

- Relocated to Norway to deepen expertise in user-centric design methodologies, service design, and systems-oriented product development.
- Applied service design and strategic design methodologies to complex systems.
- Completed all major projects in close collaboration with external industry partners, translating real-world challenges into feasible product and service solutions.
- Applied Design for Manufacturing and Assembly (DFMA) principles throughout academic and industry-led projects.
- Specialized in healthcare design, focusing on the intersection of patient needs, clinical workflows, and product innovation.

Bachelor's in Industrial Design

Dehradun, India

University of Petroleum and Energy Studies (UPES)

July 2018 - June 2022

- Built a strong foundation in industrial design methodologies, design process, and product development through design projects.
- Developed practical skills in concept development, prototyping, and design communication.
- Gained proficiency in Fusion 360, KeyShot, and Adobe Creative Suite.

Offsite Cohort 2

Chicago, United States of America

Advanced Design

June 2022 - September 2022

Offsite is a 12-week online program disrupting design education and offers a real world view of industrials design profession through the instruction of industry leaders.

Selected Projects

Portable Laparoscopic Simulation Trainer | Healthcare Innovation Project

Trondheim, Norway

NTNU × SINTEF × NSALK

August 2023 - December 2023

- Design of a portable laparoscopic simulation trainer aimed at enhancing access to surgical training by enabling medical students to practice and refine skills at home.
- Reimagined conventional simulation systems into a more affordable, accessible, and portable product solution while maintaining realistic training experiences.
- Collaborated with clinicians, researchers, and surgical educators and resident surgeons to validate requirements and refine design directions.
- Balanced ergonomics, portability, and manufacturing feasibility throughout the development process.
- Delivered prototypes, 3D files with recommendations for manufacturing and further development.

Reimagining Public Spaces for Intergenerational Living | Strategic Design Project

Trondheim, Norway

NTNU × Trondheim Kommune

January 2023 - May 2023

- Collaborated with Trondheim Municipality to develop strategic design proposals aimed at making the city centre more attractive and livable for families with children.
- Applied inclusive and human-centered design methodologies to encourage intergenerational interaction and strengthen community participation in public spaces.
- Conducted stakeholder research to identify opportunities for improving accessibility, social engagement, and quality of urban life.
- Co-creation workshops and interviews with students of primary schools in Trondheim to create and test ideas.
- Utilized systems thinking to translate complex societal challenges into feasible service and spatial design strategies.
- Collaborated with municipal stakeholders to align citizen needs with long-term urban development objectives.

Redesigning Information Flow for Child Psychiatry Services | Service Design Project

Trondheim, Norway

NTNU × St. Olav's Hospital, Trondheim

August 2022 - November 2022

- Collaborated with the Child and Adolescent Psychiatry Department (BUP) at St. Olav's Hospital to redesign information flows and patient pathways leading up to clinical admission.
- Mapped existing patient pathways to identify communication gaps, inefficiencies, and opportunities for service improvement.
- Conducted stakeholder research and co-creation workshops involving healthcare professionals, patients, and caregivers to create innovative design solutions.
- Designed user-centered service concepts that improved transparency, reduced complexity, and supported continuity of care.
- Applied systems thinking to bridge patient needs, caregiver experiences, and hospital operational requirements.

Languages

English	Fluent
Norwegian	Good Understanding
German	Beginner