

Runming (Eva) Fan

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EDUCATION

ShanghaiTech University <i>B.E. in Industrial Design</i>	Sep 2021 – Jun 2025 (Expected) GPA: 3.86/4.0
Massachusetts Institute of Technology <i>Undergraduate Special Student Program</i> Course: Advanced Product Design; Design Studio: Interaction Intelligence; Digital Instrument Design	Feb 2024 – May 2024 GPA: 5.0/5.0

ACADEMIC HONORS

Shanghai Scholarship Merit Student, ShanghaiTech University	Nov 2024 2023 & 2024
Outstanding Participant in 2024 Summer School, D&I, Tongji University	Jul 2024
Special Scholarship for the Undergraduate 3+1 Overseas Exchange Program	Jun 2024

DESIGN AWARDS

Gold Winner, Muse Creative Awards	Sep 2024
Silver Winner, Muse Design Awards	Sep 2024
Third Prize, 11th Chinese Colleges & Universities Design Competition (Top 3.81%)	Sep 2024
Excellent Design Award, 7th Global Competition on Design for Future Education (Top 4.24%)	Jul 2024
Isola Design Awards Nominee, Milan Design Week 2024	Jun 2024
Design Innovation Excellence Award, Shanghai Design Innovation Comp. (Top 3.90%)	Sep 2023
Third Prize, 10th Chinese Colleges & Universities Design Competition (Top 5.30%)	Sep 2023

RESEARCH

Motor and Motion-Control Lab <i>Designer</i>	Sep 2023 – Jan 2024 <i>Supervisor: Prof. Jiahao Chen</i>
<ul style="list-style-type: none">Created the skeleton and facial skin for a humanoid robot project aimed at emotional interactionSuggested positioning strategies for future market development of the project	
Apollo Smart Cockpit <i>Design Researcher & Designer</i>	Mar 2023 – Apr 2023 <i>Supervisor: Prof. Mingde Gu & Prof. Shimon Shmueli</i>
Explored smart cockpit design for young affluents with diverse identities and family structures.	
<ul style="list-style-type: none">Conducted user research through surveys and reports to identify user demographics and behaviorsReviewed the entire user journey, analyzed user needs, and carried out improvementsAssisted in creating a 1:1 scale mockup of the cockpit	

INTERNSHIP

Deemos Technologies Inc. <i>UI Designer</i>	Aug 2023 – Oct 2023 <i>UI Design Department</i>
<ul style="list-style-type: none">Designed the web and mobile UI for ChatAvatar (3D model generator)Investigated the interaction framework of competing products, proposing a better interface designProduced a complete set of wireframes and two sets of interactive prototypes	
Feisheng (Shanghai) Electronic Technology Co., Ltd. <i>Industrial Designer</i>	Jul 2023 – Sep 2023 <i>Global Project Manager Department</i>
<ul style="list-style-type: none">Analyzed and compared design cases focusing on appearance and interaction featuresStudied the structure, components, materials, and safety requirements by actually disassembling the productsDesigned an ultra-slim foldable display concept for AOC and presented the design in a 2D manner	

COURSE DESIGN

Humoment: AI Music Composer & Diary Bot ↗

Mar 2024 – May 2024

Supervisor: Dr. Marcelo Coelho

MIT

- Designed an AI composer that creates music based on hummings and conversations, reflecting the user's current feelings, emotions, and surroundings (concept design, interaction design and appearance design)
- Fabricated and developed a working prototype (material procurement, circuit control, fabrication)

Breathings: Feel Life in the Wind ↗

Oct 2023 – Jan 2024

Supervisor: Prof. Shulin Liao & Prof. Yue Zou

ShanghaiTech

- Developed an installation that explores the emotional connection with nature, using wind as a medium to transcend its meteorological symbolism and evoke empathy with the natural world
- Reviewed academic literature and synthesized insights from multiple case studies
- Took charge in the initial construction of the interactive web page
- Designed the hardware units' form and layout, devised various ways for users to interact
- Conducted data analysis to understand the effects of user interactions with the device, and optimized the design
- Constructed and tested the functionality of the installation using a variety of professional research methods and experimental techniques with Arduino technology

SoloChoir: Digital Instrument Design ↗

Mar 2024 – May 2024

Supervisor: Dr. Ian Hattwick

MIT

- Designed and developed SoloChoir, a digital instrument transforming real-time vocal input into choral harmonies through gesture control
- Implemented gesture recognition using MediaPipe, enabling intuitive control over harmony, volume, and timbre
- Programmed sound processors with PureData & Automatonism to achieve complex effects
- Addressed challenges in gesture recognition and parameter mapping, ensuring stable and user-friendly controls

PlugiYoga: Modular Yoga Game Toolkit ↗

Mar 2024 – May 2024

Supervisor: Prof. Xavi Laida Aguirre

MIT

- Designed and developed a modular yoga game toolkit for early childhood education, transforming traditional yoga concepts into an interactive learning experience
- Redefined yoga with slotted boards, ergonomically designed yoga blocks for different body parts
- Conducted extensive material testing and ergonomic studies
- Created detailed game mechanics, enhancing product usability and user engagement
- Managed end-to-end product design processes, including project selection, material sourcing, structural design, prototyping, and branding

EXTRACURRICULAR ACTIVITY

Teaching Assistant

May 2023 – Jun 2023

Design Thinking: Innovative Solutions for Product and Interaction Design

ShanghaiTech

- Assisted throughout 48 course hours over 4 weeks, helping 35 students complete 7 in-class projects
- Purchased course materials, wrote tool usage instructions, and assisted in making prototypes
- Provided professional suggestions, answered questions and graded projects
- Received a teaching evaluation score of 4.99/5 as a teaching assistant

Assistant Manager

Sep 2022 – Mar 2024

Workshop of the School of Creativity and Art

ShanghaiTech

- Assisted in establishing regulations and equipment instructions of the workshop
- Assisted students with prototyping and maintained regular shifts to ensure equipment functioning
- Served as a live broadcast anchor during the campus open day, hosting a live stream to showcase the school

SKILLS AND INTERESTS

Software: CAD(Proficient), Solidworks(Proficient), Fusion 360(Proficient), Keyshot(Proficient), Figma(Proficient), Photoshop(Proficient), Illustrator(Proficient), Arduino IDE(Proficient), PureData & Automatonism(Proficient)

Programming: Python(Skilled), JavaScript(Competent), Matlab(Competent)

Languages: Chinese(Native), English(Fluent - TOEFL: 107)

Interests: Human-Computer Interaction, AI-enhanced Tangible Design, and Innovative Music Interfaces