# Runming (Eva) Fan

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#### Education

ShanghaiTech University B.E. in Industrial Design	Sep 2021 – Jun 2025 (Expected) GPA: 3.86/4.0
Massachusetts Institute of Technology Undergraduate Special Student Program Course: Advanced Product Design; Design Studio: Interaction Intellig	Feb 2024 – May 2024 GPA: 5.0/5.0
Academic Honors	
Shanghai Scholarship	Nov 2024
Merit Student, ShanghaiTech University	2023 & 2024
Outstanding Participant in 2024 Summer School, D&I, Tongji U	Jul 2024
Special Scholarship for the Undergraduate 3+1 Overseas Exchan	nge 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 Comp	etition (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	<b>4</b> Jun 2024
Design Innovation Excellence Award, Shanghai Design Innovation	on Comp. (Top 3.90%) Sep 2023
Third Prize, 10th Chinese Colleges & Universities Design Comp	etition (Top 5.30%) Sep 2023
Research	
Motor and Motion-Control Lab	Sep $2023 - Jan 2024$
Designer	Supervisor: Prof. Jiahao Chen
<ul><li>Created the skeleton and facial skin for a humanoid robot project</li><li>Suggested positioning strategies for future market development of</li></ul>	
Apollo Smart Cockpit	Mar 2023 – Apr 2023
Design Researcher & Designer Supe	rvisor: Prof. Mingde Gu & Prof. Shimon Shmueli
Explored smart cockpit design for young affluents with diverse identit	ties and family structures.
• Conducted user research through surveys and reports to identify	
• Reviewed the entire user journey, analyzed user needs, and carrie	ed out improvements
• Assisted in creating a 1:1 scale mockup of the cockpit	
Internship	
Deemos Technologies Inc.	Aug 2023 – Oct 2023

UI Designer

- Designed the web and mobile UI for ChatAvatar (3D model generator)
- Investigated the interaction framework of competing products, proposing a better interface design
- Produced a complete set of wireframes and two sets of interactive prototypes

# Feisheng (Shanghai) Electronic Technology Co., Ltd.

Industrial Designer

- Analyzed and compared design cases focusing on appearance and interaction features
- Studied the structure, components, materials, and safety requirements by actually disassembling the products

UI Design Department

Jul 2023 – Sep 2023

Global Project Manager Department

• Designed an ultra-slim foldable display concept for AOC and presented the design in a 2D manner

# Course Design

# Humoment: AI Music Composer & Diary Bot

Supervisor: Dr. Marcelo Coelho

- 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 ♂

Supervisor: Prof. Shulin Liao & Prof. Yue Zou

- 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

Supervisor: Dr. Ian Hattwick

- 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 🛛

Supervisor: Prof. Xavi Laida Aguirre

- Designed and developed a modular voga game toolkit for early childhood education, transforming traditional voga 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

Workshop of the School of Creativity and Art

- 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

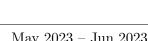
#### Skills and Interests

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



Sep 2022 – Mar 2024

ShanghaiTech

Mar 2024 – May 2024

Mar 2024 – May 2024

Oct 2023 – Jan 2024

ShanghaiTech

MIT

Mar 2024 – May 2024

MIT

MIT