

TIANRUI CHANG

INDUSTRIAL DESIGNER

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EDUCATION

ArtCenter College of Design | 2020 - 2023 | Pasadena, CA

Master of Science in Industrial Design

Auburn University | 2016 - 2020 | Auburn, AL

Bachelor of Industrial Design

EXPERIENCE

Munchkin Industrial Design Intern | Van Nuys, CA | May - present 2023

- Redesigned the silicone spout cover for children. The concept is ready for production and sale on the market.
- Developed new travel drying rack by creating 3D models and printing them using a resin 3D printer.
- Assisted the legal and patent team in completing the patent drawings for the Arm & Hammer Diaper Pail Refill Rings.
- Currently working on a CMF redesign of swing's cloth, brackets, padding, and zippers.

Steelcase Industrial Design Intern | Grand Rapids, MI | May - Aug 2022

- Developed concepts by creating 3D models in Fusion 360 and SketchUp of workplace solutions like personal storage, office fence, mobile ped, desk bracket, cable riser, and cable managers.
- Improved and refined existing product features by redesigning working principles and appearances.
- Led and represented the industrial design team to collaborate with the engineering, marketing, and application teams in weekly meetings for successful design implementation.
- Created 10+ product prototypes with bend sheet metal and tested them with various usage scenarios, proving that the designs are robust and ready to be manufactured, making the development workflow more efficient.

Babycare Design Studio | Sponsored by Babycare | Aug - Dec 2021

- Conducted research on current baby stroller market demand and collaborated with Babycare's leadership to identify the innovation needs of the brand.
- Designed a new baby stroller that closely aligns with Babycare's targeted users' needs, including taking care of traveling scenarios by improving the folding structure and adding extra storage space.

Makita Design Studio | Sponsored by Makita Corporation | Jan - Apr 2021

- After completing the market research and competitive analysis, developed and designed a distinctive smart power drill for Makita with a tactical design focused on ease of use to capture a broader first-time buyer market.
- Delivered a full-scale physical 3D mockup of the power tool, which is highly attractive and easy to use for non-professional users with better functionality and is extensible to future Makita product lines.

SKILLS

Design & Presentation

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|------------------|--------------------|---------------------|
| Product Design | Rendering | Prototyping |
| UI/UX | Sewing | User Research |
| Graphic Design | Visualization | Manufacturing |
| Packaging Design | Sketching | Market Analysis |
| CMF Design | 3D Modeling | Product Development |
| Story Boarding | Concept Generation | |

Softwares

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|------------------|-------------|
| SolidWorks | Adobe Suite |
| Fusion 360 | Rhino |
| Keyshot | 3D Printing |
| Sketchbook Pro | Figma |
| Microsoft Office | SketchUp |
| Flinto & Sketch | |

HONORS & PATENTS

Auburn IDSA's Honor Project | 2019 | Tea Set

Displayed at Jule Collins Smith Museum of Fine Art, Auburn, AL.

Art Museum Permanent Play Structure Design | 2021 | Composition

Permanent exhibition at Jule Collins Smith Museum of Fine Art, Auburn, AL.

2021. Power Tool. C.N. Patent ZL 202130615632.X, filed Sep 16, 2021, and issued Jun 28, 2022.

2018. Hand Soup Dispenser. C.N. Patent ZL202130615630.0, filed Sep 16, 2021, and issued Jan 07, 2022.