

- K E E R T H I H A R A N . T -

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I am an extroverted individual who thrives on connecting with people. Also, I'm all about making meaningful changes, both for myself and the organizations I'm involved in because I truly believe in the positive results they can bring. Looking forward to being a part of the organization seeking growth in all terms. Passionate about the intersection of functionality and aesthetics, with a meticulous approach to user-centric design. Believes that the best solutions are often the simplest, discovered through a keen eye and thoughtful mind.

Resume - <https://rb.gy/jk3i59>

Personal Website Link – www.keerthiharandesignstudio.in

SKILLS

PERSONAL SKILLS

- Analytical Thinking
- Crisis Management
- Problem Solving
- Design Thinking
- Researching
- Teamwork
- Organized
- Adaptability
- Attention to Detail
- Curiosity to learn

DESIGN SKILLS

- Sketching
 - 3D Modelling
 - Rendering
 - Visualizing
 - User-Centered Design
 - Prototyping
 - Parametric Drawing
 - Presentation
 - Materials & Manufacturing Knowledge
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SOFTWARES KNOWN

- | | | |
|------------------|----------------|----------------------|
| ➤ SolidWorks | ➤ Procreate | ➤ After Effects |
| ➤ Blender | ➤ Figma | ➤ Substance Designer |
| ➤ PTC Creo | ➤ Framer | ➤ Substance Stager |
| ➤ Catia | ➤ SimaPro | ➤ Substance Sampler |
| ➤ AutoCAD | ➤ Photoshop | ➤ Substance Painter |
| ➤ Rhinoceros 3D | ➤ Illustrator | |
| ➤ Sketchbook Pro | ➤ Premiere Pro | |

PROFESSIONAL EXPERIENCE

Sree Sumangala Metals and Industries, Ambattur • Tool Design Engineer

Jun/2021 – Jul/2022

- Designed press tools, welding fixtures, and gauges for precise manufacturing.
- Developed supplier process drawings, BOMs, and optimized laser cutting processes.
- Implemented continuous improvements to enhance tool performance and reduce costs.
- Created and maintained technical documentation for all designs.
- Collaborated with cross-functional teams and coordinated with suppliers for timely delivery.
- Managed tool design projects from concept to completion, ensuring quality and adherence to timelines.

EDUCATION

Master's in design (Industrial Design) • Vellore Institute of Technology, Vellore

2022 – 2024

- **Innovative Design Thinking:** Expertise in user-centered design and creating functional, aesthetically pleasing products.
- **Prototyping & Modeling:** Skilled in 3D modeling, rapid prototyping, and using CAD and SolidWorks.
- **Material & Process Knowledge:** Strong understanding of materials and sustainable manufacturing processes.
- **Presentation Skills:** Proficient in presenting and pitching design ideas effectively.
- **Human Factors & Ergonomics:** Focused on user comfort and safety through ergonomic design.
- **Projects:** Gained real-world experience through industry internships and recognized academic projects.

Bachelor of Engineering (Mechanical) • SRM Valliammai Engineering College, Potheri

2017 – 2021

- **Problem Solving & Design:** Skilled in CAD and simulation tools for innovative engineering solutions.
- **Core Knowledge:** Expertise in mechanical design, thermodynamics, fluid mechanics, and material science.
- **Practical Experience:** Hands-on work with machinery and lab equipment, complemented by designing and testing of Go Kart.
- **Project Management:** Led projects, ensuring successful planning and execution.
- **Manufacturing Techniques:** Proficient in welding, and 3D printing.
- **Technical Documentation:** Capable of preparing detailed technical reports and presentations.
- **Team Collaboration:** Strong teamwork and communication skills from multidisciplinary projects.

Higher Secondary • Shri Anand Jain Vidyalaya Matric. Hr. Sec. School, Tambaram

2016-2017

- **Strong Academic Foundation:** Learnt advanced coursework in Computer Science, Chemistry and Physics.
 - **Analytical Skills:** Developed critical thinking and problem-solving abilities.
 - **Communication Skills:** Improved written and verbal communication through presentations.
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Secondary • Shri Anand Jain Vidyalaya Matric. Hr. Sec. School, Tambaram

2014-2015

- **Extracurricular Activities:** Involved in sports, arts, and cultural activities, fostering teamwork.
- **Time Management:** Balanced academics and extracurriculars, demonstrating effective time management.
- **Community Involvement:** Volunteered in community service projects, building social responsibility.
- **Continuous Learning:** Participated in workshops and additional courses.

CERTIFICATION

- AutoCAD 2D - 2017
- Product Design - Creo, Catia, GD&T- 2019
- Photoshop - Udemy - 2020
- SolidWorks (Basic & Adv) - Internshala – 2021
- Dip. Modern and Applied Psychology - Udemy - 2021
- 3D Printing - HP Life - 2021
- Design Thinking - HP Life – 2021

PROJECTS

1. ScoliHug – Supplementary Seating for Individuals with Scoliosis

Developed an ergonomic seating add-on to support individuals with scoliosis. The design features inflatable air cushions and semi-rigid flaps to enhance posture and comfort. Iterated based on feedback from medical professionals and users.

- **Key Learnings:** Human-centered design, iterative prototyping, user feedback integration.
- **Skills:** Ergonomics, material selection, rapid prototyping.
- **Software:** SolidWorks, AutoCAD, Blender, Photoshop, Illustrator, PowerPoint.

2. Dine ‘N’ – DIY Dining Chair

Designed a modular and minimalist DIY dining chair inspired by IKEA, focusing on ease of assembly and stackability. Fabricated using stainless steel and wood and refined based on ergonomic analysis and user feedback.

- **Key Learnings:** Modular design, sustainable material use, hands-on fabrication.
- **Skills:** Metalworking, woodworking, ergonomic design.
- **Software:** SolidWorks, AutoCAD, Blender, Photoshop, Illustrator, PowerPoint.

3. Symphonix – Sustainable Headphones

Created eco-friendly headphones with a modular design for easy part replacement. Conducted lifecycle analysis to minimize environmental impact and used biodegradable and recyclable materials.

- **Key Learnings:** Sustainable design, lifecycle assessment, modular product design.
- **Skills:** Material innovation, audio component testing, lifecycle analysis.
- **Software:** SimaPro, SolidWorks, Blender, Photoshop, Illustrator, PowerPoint.

4. Hygie – Ladle/Spatula Holder

Developed a heat-resistant holder for kitchen utensils, integrating with cooking vessels to provide a convenient and safe storage solution during cooking or serving.

- **Key Learnings:** User-centered design, material testing, rapid prototyping.
- **Skills:** Prototyping, user safety considerations, functional design.
- **Software:** Rhino, SolidWorks, Blender, Photoshop, Illustrator, PowerPoint.

5. LK2 – Electric Kettle by LEXUS

Designed a luxury electric kettle for Lexus, blending aesthetic appeal with advanced smart technology and sustainability. Focused on aligning the design with Lexus's brand philosophy.

- **Key Learnings:** Brand alignment, smart technology integration, luxury product design.
- **Skills:** CAD modelling, luxury design principles, smart home technology.
- **Software:** SolidWorks, Blender, Photoshop, Illustrator, PowerPoint.

6. The Legacy – Hatchback by FIAT

Reimagined Fiat's classic hatchback with modern features, integrating advanced technology and sustainability. Focused on maintaining Fiat's traditional design language while appealing to contemporary consumers.

- **Key Learnings:** Automotive design, brand heritage integration, advanced technology.
- **Skills:** Automotive CAD modelling, brand design integration, technology innovation.
- **Software:** SolidWorks, Sketchbook Pro, Photoshop, Illustrator, PowerPoint.

7. Socius – Braille Stylus

Redesigned a Braille stylus to enhance ergonomic feasibility and comfort for users with visual impairments. The final design minimizes hand fatigue and incorporates tactile markers for improved navigation.

- **Key Learnings:** Gained insights into accessible design and the importance of user feedback in refining product ergonomics.
- **Skills:** Ergonomic Design, User Research, Prototyping.
- **Software:** SolidWorks, Sketchbook Pro, Photoshop, Illustrator, PowerPoint.

8. Küchesauber – Kitchen Faucet Gun

Designed a kitchen faucet inspired by the seahorse form, combining ergonomic efficiency with a visually appealing design. The faucet features intuitive controls and a flexible hose for versatility.

- **Key Learnings:** Enhanced ability to balance aesthetic design with practical functionality and material selection.
- **Skills:** Aesthetic Design, Ergonomic Functionality, Prototyping.
- **Software:** SolidWorks, Sketchbook Pro, Photoshop, Illustrator, PowerPoint.

9. Mindful Marvel – Learning Kit for Autism Kids

Developed a learning kit for children with autism, focusing on cognitive, social, and motor skill development through interactive games and activities.

- **Key Learnings:** Improved understanding of designing for special needs and creating engaging educational tools.
- **Skills:** Inclusive Design, User-Centered Design, Prototyping.
- **Software:** SolidWorks, Sketchbook Pro, Figma, Photoshop, Illustrator, PowerPoint.

10. World Cup 2023 – Trophy Designs

Created various trophies for the ICC Cricket World Cup 2023, celebrating different aspects of the game with designs that embody cricket's essence and emotional impact.

- **Learnings:** Developed skills in conceptualizing and designing symbolic, ceremonial objects.
- **Skills:** Conceptual Design, 3D Modelling, Material Selection, Laser Cutting
- **Software:** SolidWorks, Sketchbook Pro, Photoshop, Illustrator, PowerPoint.

11. Irani Indian Modern Kitchenware

Group Project – Role: Research, 3D Modelling, CMF Application

Designed kitchenware for an Irani Indian restaurant, integrating cultural elements from both traditions into modern, ceramic-based dining ware.

- **Learnings:** Gained experience in cultural design integration and collaborative design processes.
- **Skills:** Cultural Research, 3D Modelling, CMF Application, Pottery, Clay Making.
- **Software:** : SolidWorks, Sketchbook Pro, Photoshop, Illustrator, PowerPoint.

12. Genie – A Food Recipe App

Developed a personalized food recipe app offering a wide variety of recipes tailored to users' dietary preferences and time constraints.

- **Learnings:** Improved skills in user research, app prototyping, and designing for diverse user needs.
- **Skills:** User-Centered Design, Prototyping, UX/UI Design.
- **Software:** Figma, Sketchbook Pro, Photoshop, Illustrator, PowerPoint.

Declaration

I, Keerthiharan.T confirm that the information in this CV is accurate and that all project descriptions and associated works are my own, unless credited otherwise. All rights to these designs belong to me.



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Industrial Designer

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