



ARVIND BHALLAMUDI

Design + Engineering + Systems

I am a maker developing creative solutions through a research-to-prototyping-to-venture driven process. Aiming to build products and experiences that accelerate the transformation to a circular economy.

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arvindbhallamudi.com 

PROFESSIONAL EXPERIENCE

Curiosity Gym • Product Lead + Design Instructor

Mar 2020 - May 2021 • Mumbai

- Led product design: conceiving, prototyping, fabrication and delivery of science exhibits, protective equipment and makerspace projects in the EdTech startup's pivot for the 2020 digital transformation.
- Responsible for software and web projects with UI/UX design, cloud development, testing, implementation and digital marketing campaigns that improved search rankings.
- Conducted online lectures, workshops and mentorships on design thinking, product design and innovation for 500+ students across prestigious schools and colleges including SPJIMR, BIS and ABWA.

Dimiour Design • Founder + Lead

Sep 2019 - Dec 2021 • Mumbai

- Assembled FDM 3D printers and launched a personal venture providing consultancy and services in industrial design, CAD, design for additive manufacturing, and bioplastic (PLA) 3D printing.
- Developed cloud and web systems for business operations, marketing, and sales. Formed and led a five-person team to explore the market, optimize processes and deploy products.
- Created a series of B2B/B2C services, rebranded twice and completed 50+ projects, delivering 600+ 3D printed parts to customers.

National Institute for Interdisciplinary Science & Technology • Freelancer

Jun 2019 - Sep 2019 • CSIR, Trivandrum

- Designed the spatial layout, 3D models and dashboard interface of an IoT-based SMART Foundry.

Biomedical Engineering & Technology Innovation Centre • Intern

Jan 2018 - June 2018 • IIT Bombay

- Developed, fabricated, and tested three medical devices - transfemoral prosthesis, heart valve surgery tool and glaucoma screening device that were used in clinical trials.

IDC School of Design • Intern

Jun 2017- Jul 2017 • IIT Bombay

- Built a lightweight, eco-friendly and local cane palanquin to reduce the load carried by pilgrim porters.

PATENTS & PUBLICATIONS

Headgear Ophthalmic Device • Inventor

2020 • Symbiosis International University • IIT Bombay
International patent published #WO2020141499

Multi-Directional and Multi-Functional Lighting Assembly • Inventor

2020 • Dimiour Design
Indian patent filed #201921050663

Design for Tomorrow, Volume III • Author

2020 • IDC School of Design
Proceedings "Novel Head-Mounted Ophthalmic Device for Monitoring Glaucoma"

Industry 4.0 and Advanced Manufacturing • Author

Accepted 2022 • Curiosity Gym
Proceedings "Creator Ecosystems using 3D Printing in Digital Transformation of Education"

ADDITIONAL EXPERIENCE

Co-Works Interdisciplinary Lab • Graduate Assistant

Aug 2022 - Present • Rhode Island School of Design

Hyundai Design Studio • Technical Assistant

Jan 2022 - May 2022 • Rhode Island School of Design

Edna Lawrence Nature Lab • Biomaterials Assistant

Jan 2022 - Present • Rhode Island School of Design

Design X Health • Program Manager

Nov 2021 - Present • Brown University + RISD

SP Jain Institute of Management and Research • Mentor

Mar 2021 • Curiosity Gym

Conference on IPR, Patents, Copyrights, Innovations, Startups • Speaker

Feb 2020 • Pimpri Chinchwad College of Engineering

International Conference on Research into Design • Speaker

Jan 2020 • IDC School of Design

EDUCATION

Rhode Island School of Design

2021 - 2023 • Providence, RI
Master of Industrial and Product Design

Symbiosis Institute of Technology

2015 - 2019 • Pune, India
Mechanical Engineering, Bachelor of Technology

SKILLSETS

Industrial Design

Design Research, Design Thinking, Concept Design, Rapid Prototyping, Packaging, CAD, Rendering (Solidworks • Fusion360 • ProE • AutoCAD • Keyshot)

Engineering + Manufacturing

Machine Design, Simulation, DfAM, 3D Scanning, 3D Printing, Laser Cutting, CNC, Wood, Metal, Plastics Circuits, Arduino, PCB and IoT Integration (Solidworks • Fusion360 • Meshmixer • Cura)

UI/UX Design + Digital Design

User Research, Wireframing, Interface Design, Branding, Cloud Web Development (Illustrator • Figma • Adobe XD • Wix • Wordpress)

Business + Marketing

Systems Design, Venture Design, Project Management, Analytics, Automation, SEO, SEM, SMM (Office • Google Analytics • Google Ads • Search Console)

Teaching + Writing

Curriculum & Content Design, Lectures, Workshops, Mentoring, Assessment, Technical Writing

Media + Graphics

Advanced Photography (DSLRs, Macropod, Studios) Cinematography, Audio, Music Production, 3D Animation (Lightroom • Premiere • Audacity • Blender • LMMS)

Linguistic

English (full proficiency), Hindi, Telugu

AWARDS

Fred M Roddy Scholarship

Rhode Island School of Design, RI

Corona Design Challenge

IDC School of Design, IIT Bombay

Most Distinguished Paper

International Conference on Research into Design

Indian Karting Championship

Ranked 8th out of 132 national teams in Go-kart racing

Limca National Record • Rubik's Cubing

Most people solving within time (60s), IIT Bombay

CERTIFICATIONS

Advanced Google Analytics

Google Digital Academy

Delft Design Approach

TU DelftX, Coursera