

Arvind Bhallamudi

Industrial Designer and Engineer

My practice investigates the development of materials, products and machines, crafting experiences centered around human health and planetary ecosystems.

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arvindbhallamudi.com 🌐

Boston, MA 📍

Work Experience

Big Dreams Studio (formerly Tellart) • Design Strategist

Oct 2023 – Present • Providence, RI

- Worked closely with the founder, production managers, director of strategy and of design, and teams for 10+ commercial projects.
- Crafted and delivered visual communication assets, website experiences, and brand messaging for fusion startup **Xcimer Energy**.
- Led qualitative interviews and analysis with pilots and coordinators, discovering market insights for new technology at **Collins Aerospace**.
- Led the user journey research, UI system design and UX workflow development for an AI-driven route-to-market startup **Overproof**.

Co-Works Research Lab • Graduate Instructor

Aug 2022 – May 2023 • Rhode Island School of Design, RI

- Conducted 100+ trainings and consultations for team members, students and faculty on 3D printing, laser cutting and vacuum forming.
- Created a resource guide for using, maintaining and optimizing additive workflows at four stations: FDM, SLA, Ceramic and Paste.

RISD x Hyundai Design Studio • Technical Assistant

Jan 2022 – May 2022 • RISD X Hyundai Collaborative, RI

- Assisted participants in the tech landscapes studio with digital media equipment macropods, drones, microphones, GPS and weather station.
- Assisted faculty and students in the digital ceramics studios through 3D printing, biomaterial formulation workshops and project support.

Curiosity Gym Education • Design Innovation Lead

Mar 2020 – May 2021 • Mumbai, India

- Created and conducted courses, workshops and mentorships on design thinking, product design, interior design, 3D modeling and 3D printing for 500+ K-12, undergraduate and graduate students.
- Headed the development of the website, digital marketing campaigns that diverged and boosted channels of traffic and SEO rankings to 1st.

Dimiour Design Studio • Founder

Sep 2019 – August 2021 • Mumbai, India

- Formed a team and venture servicing mechanical design and 3D printing. Completed 50+ projects, delivering 600+ parts to customers.

National Institute of Interdisciplinary Science & Technology • Designer

Jun 2019 – Sep 2019 • CSIR Trivandrum, India

- Developed the spatial layout and dashboard for 4 units: 3D printing, molding, melting, sand-reclamation in an IoT-based SMART foundry.

Biomedical Engineering & Technology Innovation Centre • Intern

Jan 2018 – June 2018 • Indian Institute of Technology, Mumbai, India

- Developed, fabricated and tested three medical devices: lower-limb prosthesis, heart valve surgery tool and a glaucoma diagnosis device.

Shenoy Design Studio • Intern

Jun 2017– Jul 2017 • IDC School of Design, Indian Institute of Technology, Mumbai, India

- Co-created a 60% lighter and eco-friendly 'cane palkhi' (rattan palanquin) with local craftsmen for pilgrim porters at Vaishno Devi.

Education

Rhode Island School of Design

2021 – 2023 • Providence, RI

Master of Industrial and Product Design

Thesis: 'Fungi in Flux', biomaterial design and fabrication with local waste and mycelium: myco-type.com

Symbiosis Institute of Technology

2015 – 2019 • Pune, India

Bachelor of Technology, Mechanical Engineering

B.Tech Project: 'Glaucoma Screener', a novel headgear-based device for early detection of glaucoma in patients

Patents & Publications

Headgear Ophthalmic Device

2020 • Symbiosis University + Indian Institute of Technology, Mumbai, India

#WO2020141499 International patent published (WIPO)

Multi-Directional and Multi-Functional Lighting Assembly

2020 • Dimiour Design Studio, Mumbai, India

#201921050663 Indian patent granted

International Conference on Research into Design, Springer: Design for Tomorrow, Vol III

2020 • IDC School of Design, Mumbai, India

Proceedings "Design and Prototyping of a Head-Mounted Ophthalmic Device for Monitoring Glaucoma"

Conference on Indian Patents, Copyrights, Innovations and Startups

2020 • Pimpri Chinchwad College of Engineering And Research, Pune, India

National Conference of Indian Association of Assistive Technologists

2018 • Bhubaneswar, India

Proceedings "Parametric Design and Hybrid Fabrication Process of Above-Knee Prosthesis"

Additional Experience

Biodesign Challenge · Grant Writer

Apr 2024 – May 2024 · Boston, MA

- Collaborated with the executive director to articulate a narrative for the nonprofit's mission, goals and programs; recommended funding opportunities from federal (NSF) and corporate donors, successfully proposed and received funding from the STEM Action Grant 2024.

RISD Global Biodesign NYC · Teaching Assistant

Jan 2023 · Rhode Island School of Design, RI

- Assisted with organization during a five-week course at New York City and conducted a lecture on mycelium and algae-based materials.

RISD Industrial Design Department · Graduate Assistant

Jan 2023 · Rhode Island School of Design, RI

- Conducted trainings for 3D printing and laser cutting, created spatial layouts of the studio and makerspace, and assisted various programs.

RISD x Hyundai Sustainable Futures Exhibition · Assistant Curator

Nov – Dec 2022 · Rhode Island School of Design, RI

- Designed spatial layout, created written collateral, managed participant logistics for 20+ exhibits, and carried out the execution.

RISD Edna Lawrence Nature Lab · Biomaterials Instructor

Jan 2022 – May 2022 · Rhode Island School of Design, RI

- Conducted weekly trainings; experimented with multiple biomaterial formulations, and designed a labelling system for the material library.

eMedha Medical Device Hackathon · Design Mentor

Jan 2021 · Biomedical Engineering and Technology Innovation Center, IIT Bombay, India

- Mentored a team of doctors and engineers on 'Robotic Laparoscopic Surgery with Haptics' that won the 'Most Ingenious Design Award'.

SP Jain Institute of Management and Research · Design Instructor

Mar 2021 · Curiosity Gym, Mumbai, India

- Conducted a workshop series on 'Product Design and 3D Printing' for 200+ post-grad management students and mentored 15 teams.

Community & Volunteering

Biodesign Challenge · Research Volunteer

August 2023 - December 2023 · Boston, MA

- Developed a resource library of research papers, articles and learning resources across industries of energy, materials and food, focusing on biologically-inspired climate solutions with key insights.

Design X Health · Founding Member

Nov 2021 – Dec 2022 · Brown University + Rhode Island School of Design, RI

- Managed industry partnership projects, including with RI Department of Corrections for opioid rehabilitation, designing a resource website.

RISD IDSA Chapter · Finance Manager

Feb 2022 – Jun 2022 · Rhode Island School of Design, RI

- Managed event logistics, budgets, bills of materials and partnerships, working with a team to execute 'RISD Make-a-thon'.

Honors & Awards

EcoLaunch Accelerator

2024 · Contributing Expert on circular economy and biomaterials at ecolaunch.earth, Australia

Autodesk Research Connections

2023 · Speaker at Autodesk Boston, MA

Somerson Sustainability Innovation Fund

2022-23 · Principal Investigator, Rhode Island School of Design, RI

Mark Harrison Grant

2022-23 · Principal Investigator, Rhode Island School of Design, RI

RISD Design Research Award

2023 · Rhode Island School of Design, RI

Brown-RISD Innovation Community

2022 · Speaker at Brown University + RISD, RI

Fred M Roddy Scholarship

2022 · Rhode Island School of Design, RI

RISD Fellowship

2021-23 · Rhode Island School of Design, RI

Corona Design Challenge Award

2020 · IDC School of Design, IIT Bombay, India

Most Distinguished Paper Award

2020 · International Conference on Research into Design, IDC School of Design, India

Indian Karting Championship

2019 · Ranked 8th out of 132 national teams for go-kart design, manufacturing and racing

Limca National Record

2013 · Maximum people solving a 3x3 Rubik's cube in stipulated time (60s), Mumbai, India

Skills

Industrial Design Engineering

Sketching, CAD, CAE, Rendering, Mechanical Design, 3D Printing, CNC, 3D Scanning, Laser Cutting, Molding, Vacuum Forming, Microcontrollers
[Solidworks](#) · [Fusion360](#) · [Rhino](#) · [Blender](#)
[Meshmixer](#) · [Cura](#) · [Arduino IDE](#) · [Keyshot](#)

Research and Strategy

Ethnographic Interviews and Surveys, Market Research, Data Analytics and Synthesis, Visual Communications, Copywriting, Stakeholder Engagement
[Miro](#) · [Notion](#) · [MS Office](#) · [Google Analytics](#)

Digital Experience Design

Storyboarding, Wireframing, Interface Design, Interaction Design, Web and App Design, Usability & Performance Testing, Branding, Digital Marketing
[Adobe Suite](#) · [Figma](#) · [Wix](#) · [Wordpress](#) · [Shopify](#) · [Audacity](#) · [Ableton Live](#)

Linguistic

English (full proficiency), Hindi, Telugu