


Arvind Bhallamudi

Industrial Designer and Green Strategist

My practice integrates the design of materials, products, services, and systems; combining science, technology and storytelling for human-nature connections.

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PROFESSIONAL EXPERIENCE

Big Dreams Studio (formerly Tellart) · Strategist

Oct 2023 – Present · Providence, RI

- Designed and delivered brand narratives, communication assets, digital interfaces, experiences, and data visualizations as a website revamp simplifying the science of inertial fusion for the future of carbon-free energy [for Xcimer Energy]
- Conducted qualitative interviews with pilots and coordinators, and a thematic analysis to discover needs, challenges and opportunities for an aftermarket technology product that minimizes aircraft wingtip collisions [for Collins Aerospace]
- Led the web design and digital marketing strategy, and contributed to business development [for four small companies in Rhode Island].

Biodesign Challenge · Grant Writer

Apr 2024 – May 2024 · Boston, MA

- Articulated a narrative for BDC's mission, goals and audience, submitted a proposal for the STEM Action Grant. Researched funding opportunities from NSF.

Co-Works Interdisciplinary Lab · Instructor

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

- Improved the spatial layout, inventory, conducted maintenance and created a resource guide for four 3D printing stations: FDM, SLA, ceramic and paste.
- Conducted 100+ trainings and consultations for team members, students and faculty on biomaterials, 3D printing and other makerspace equipment.

Hyundai Sustainable Futures Exhibition · Assistant Curator

Nov – Dec 2022 · RISD X Hyundai Collaborative, RI

- Designed spatial layout, created written collateral, organized participant logistics for 20+ exhibits, and managed graphics and prints as part of a six-person team.

Curiosity Gym Education · Innovation Lead

Mar 2020 - May 2021 · Mumbai, India

- Led the design of edtech kits, exhibits and equipment; developed the company website, and launched digital marketing campaigns that boosted organic traffic.
- Conducted lectures, workshops and mentorships on design thinking, innovation, product design and 3D modeling for 450+ students across schools and colleges.

Dimiour Design Studio · Founder

Sep 2019 - Dec 2021 · Mumbai, India

- Launched a venture providing services in industrial design, engineering and 3D printing. Completed 50+ projects, delivering 600+ parts to customers.
- Developed an online brand, business operations, marketing, and sales. Formed a five-person team to explore the market, optimize, deploy products and improve.

PATENTS & PUBLICATIONS

Headgear Ophthalmic Device

2020 · Symbiosis University + Indian Institute of Technology, Mumbai

#WO2020141499 World Intellectual Property Organization published

Multi-Directional and Multi-Functional Lighting Assembly

2020 · Dimiour Design Studio, Mumbai

#201921050663 Indian patent granted in 2024

Springer, Design for Tomorrow, Volume III

2020 · IDC School of Design, Indian Institute of Technology, Mumbai

Proceedings "Head-Mounted Ophthalmic Device for Monitoring Glaucoma"

EDUCATION

Rhode Island School of Design

2021 – 2023 · Providence, RI

Master of Industrial and Product Design

Thesis: 'MycoType', biomaterial design and fabrication with local waste and mycelium.

Symbiosis Institute of Technology

2015 - 2019 · Pune, India

Mechanical Engineering, Bachelor of Technology

B.Tech Project: 'Glaucoma Screener', a diagnostic to check intraocular pressure.

SKILL SETS

Research

Qualitative, Quantitative, Interviews, Surveys, Market Research, Scientific Research, Design Research, Data Visualization, Thematic, Statistical and Graphical Analyses, Insighting
Excel · Miro · Notion

Industrial Design

Concept Sketching, 3D CAD, Simulation, Mechanical Engineering, Design for Manufacturing, Design for Assembly, 3D Scanning, CNC, 3D Printing, Laser Cutting, Molding, Vacuum Forming, Microcontrollers
Solidworks · AutoCAD · Fusion360 · Rhino
Meshmixer · Cura · Arduino IDE

Digital Design

Storyboarding, Wireframing, Personas, Experience Design, Interaction Design, Interface Design, Digital Prototyping, HCI, Customer Journey, Web Design and Dev, Usability and Performance Testing
Adobe Suite · Figma · Wix · Wordpress · Shopify

Strategy

Visioning, Branding, Engagement Strategy, Stakeholder Communications, Creative and Technical Writing, Marketing (SEO, SEM, SMM), Web Analytics
MS Office · Google Analytics · Google/Meta Ads

Multimedia

Advanced Photography (Lighting, DSLRs, Macropod), Cinematography, Audio Editing and Production, 3D Animation
Lightroom · Audacity · LMMS · Blender · Keyshot

Linguistic

English (full proficiency), Hindi, Telugu

ADDITIONAL EXPERIENCE

National Institute of Interdisciplinary Science & Tech · Spatial Designer

Jun 2019 - Sep 2019 · CSIR Trivandrum, India

- Designed the spatial layout, dashboard and 3D CAD models of four units: 3D printing, molding, melting and sand-reclamation in an IoT-based SMART Foundry.

Biomedical Engineering & Technology Innovation Centre · Intern

Jan 2018 - June 2018 · Indian Institute of Technology, Mumbai

- Developed, fabricated and clinically tested three medical devices: transfemoral 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

- Co-created a lightweight and eco-friendly 'cane palanki' (rattan palanquin) with local craftsmen for pilgrim porters at Vaishno Devi and Elephanta Caves.

TEACHING

RISD Global Biodesign NYC · Teaching Assistant

Jan 2023 · Rhode Island School of Design, RI

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

RISD Industrial Design Department · Workshop Instructor

Jan 2023 · Rhode Island School of Design, RI

- Conducted a workshop in a winter course 'Mold(ing)' to introduce participants to mycelium bio-fabrication using local waste and custom vacuum-formed molds.

Hyundai Design Studio · Technical Assistant

Jan 2022 - May 2022 · RISD X Hyundai Collaborative, RI

- Assisted participants in the use of digital media equipment including macropods, underwater drone, high-fidelity microphones, GPS and weather station.

Edna Lawrence Nature Lab · Biomaterials Instructor

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

- Conducted weekly trainings and designed visual labels for the biomaterial library. Held bioplastic workshops for courses 'Digital Ceramics' and 'EFS Design Studio'.

eMedha Medical Device Hackathon · Design Mentor

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

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

SP Jain Institute of Management and Research · Instructor and Mentor

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 on capstone projects.

VOLUNTEERING

Biodesign Challenge · Researcher

August 2023 - December 2023 · Boston, MA

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

Design X Health · Program Manager

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 graphics, prints and a website.

AWARDS

Design Research Award

2023 · Rhode Island School of Design, RI

Mark Harrison Grant

2022-23 · Rhode Island School of Design, RI

Somerson Sustainability Innovation Grant

2022-23 · Rhode Island School of Design, 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

2020 · IDC School of Design, IIT Bombay

Most Distinguished Paper

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

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 Rubik's cube within stipulated time (60s), IIT Bombay

PUBLIC SPEAKING

NMIMS School of Design

April 2024 · NMIMS Workshop Series, Remote

Autodesk Research Connections

October 2023 · Autodesk Boston, MA

RISD Grad Exchange

May 2023 · Rhode Island School of Design, RI

Brown-RISD Innovation Community

Oct 2022 · Brown University + RISD, RI

Conference on IPR, Patents, Innovation and Copyrights

Nov 2020 · PCCOER, Pune, India

ONLINE COURSES

Advanced Google Analytics

2021 · Google Digital Academy

Design Engineering in a Circular Economy

2021 · TU DelftX, Coursera

DSLR Camera Control

2019 · Michigan State University, Coursera

EXTRA

Electronic Music

2020 · 'Tartarus' EP and 'Tosh' composed, produced and released on YouTube, Spotify, Apple and Amazon Music.

Wildlife Photography

2010 - Present · Trailing and photographing endangered species including Blackbuck, Bengal Tiger and Star Turtle in natural habitats.