

BHAVOOK SINGH

INDUSTRIAL DESIGNER | CONSUMER PRODUCTS, MECHANISMS, ELECTRONICS & INTERACTIONS

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Profile

Industrial designer with an architecture background specializing in consumer products, physical interaction, mechanisms, and integrated electronics. Works across research, concept development, CAD, electronics integration, prototyping, and fabrication to turn complex technology into intuitive physical experiences.

Experience

Product Designer (Part-time) Yantra AI	Designed and prototyped IoT consumer products from concept through working prototypes, integrating Arduino/ESP32 microcontrollers, PIR and ToF sensors, relay-controlled LED lighting, and mechanisms. Translated complex system requirements into product architecture, form, and intuitive physical interactions for connected-home products now deployed in customer environments.	Feb 2023 - Present
Installation Designer iDAC & DDS Exhibitions	Designed and built full-scale interactive installations presented at two exhibitions, using group activity as the basis for a public social experiment.	Sep 2024 & May 2025
Workshop Facilitator SPA New Delhi	Designed and led the introductory workshop “Basic Electronics for Product Design” for SPA New Delhi students.	Aug 2025
Interior Designer Geminid Design	Managed the design and execution of a turnkey interior project, including custom home-automation work.	Aug 2022 - Jan 2023
Sr Architect Space IQ Design Studio	Supervised project delivery and coordinated team outputs, including services drawings, technical documentation, and client presentation drawings.	Aug 2021 - Jul 2022
Jr Architect Decor India Pvt Ltd	Designed and delivered commercial projects for clients including Sabyasachi and IOCL. Managed client meetings, technical drawings, and coordination with carpenters and project teams.	Jul 2018 - Apr 2020
Intern Architect Kothari Associates	Prepared detailed washroom drawings and door-and-window schedules for Firozabad Medical College, ensuring coordinated architectural documentation.	Jan 2017 - May 2017

Selected Industrial Design Projects

STARRI Industrial Design Thesis 2026	Researched, designed, and fabricated an open-roof stargazing tent; exhibited the working prototype at India Habitat Centre, New Delhi, after validation with two survey cohorts (20 amateur stargazers and 60 active enthusiasts).
ECLIPSE Mechanism Repurposing Jan-May 2025	Translated a twist-up mechanism into a lamp table whose nested diffusers rise through rotary interaction; developed sketches, form trials, and a working model.
AURA Wearable Sensory Regulation Aug-Dec 2025	Developed a discreet tactile glove through research, a specialist-school field visit, and iterative physical prototypes exploring texture, rolling elements, and finger-free mobility.
DOODLE DEN Stationery System Aug 2025 - May 2026	Co-developed an age-specific stationery kit through product research, teardowns, concept development, 3D packaging studies, manufacturing analysis, BOM and costing.

Education, Leadership & Recognition

Master of Design (Industrial Design) SPA New Delhi	Class Representative M.Des, SPA New Delhi	2024 - 2026
Bachelor of Architecture SPA Vijayawada	University of Westminster Architecture Awards Top 10 Finalist (B.Arch)	2013 - 2018

Skills

Design	Product design; interaction design; mechanism design; consumer electronics; design research; human factors; CMF; DFM
Prototyping & Fabrication	Rapid prototyping; 3D printing; woodworking; metalworking; moulding; electronics integration; soldering; full-scale exhibition fabrication
Tools	SolidWorks; Rhino 3D; SketchUp; KeyShot; V-Ray; Adobe Photoshop; Adobe Illustrator; Procreate; Arduino; ESP32; sensors; basic PCB prototyping