

NIDHI MUDGALA

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UX RESEARCH | DESIGN RESEARCH | SERVICE DESIGN | SYSTEMS THINKING | UI/UX

SUMMARY

An engineer transitioning into human-centered design, currently pursuing a Master of Design at NIFT, Bengaluru. I combine my analytical background in dynamic systems and engineering research with growing expertise in UX and design research, systems thinking, and service design to develop impactful and intuitive product and system solutions. I am currently seeking roles in UX and design research, system and service design, and UI/UX, where I can apply both rigorous research methods and people-first design to create meaningful and aligned experiences.

EDUCATION

National Institute of Fashion Technology Master of Design Space (pursuing)	Bengaluru, Karnataka August 2025 - June 2027
Shiv Nadar Institute of Eminence B.Tech Mechanical Engineering, Specialization in Energy Technology	Greater Noida, Uttar Pradesh August 2020 - May 2024

WORK EXPERIENCE

Shiv Nadar Institute of Eminence
Undergraduate Researcher August 2023 - May 2024

- Employed Recurrence Network Analysis tools to build suitable precursor measures to indicate bifurcations in dynamic stall flutter in dynamic aerofoil systems.
- Utilized Recurrence Network Analysis, Network Theory, Dynamical Systems Theory, and Non-linear Aerodynamics.
- Published a conference paper for the National Conference on Wind Engineering 2024 at VIT Chennai.

Tech Analogy (Now MyEquation) Greater Noida, Uttar Pradesh
Mechatronics Intern June 2021 - July 2021

- Designed CAD models and conducted FEA for solar-powered systems.
- Worked on CAN (Controller Area Network) data optimization.

SKILLS

Design Research:	UX Research, Systems & Service Design, Trend Research, UI/UX, Sustainable Design
Tools:	Figma, Illustrator, AI in Design Workflows, SolidWorks, MATLAB
Engineering Research:	Data Analysis, Mathematical Systems Modeling, CAD & 3D Modeling

PROJECTS

Service Design, Aadhar Seva Kendra Bengaluru

Developed cross-platform service design suggestions for Aadhar Seva Kendras in Bengaluru based on in-depth service blueprinting and analysis of the existing service structures around specific user personas.

Craft Research Documentation, Ministry of Textiles, 2026

In-depth ethnographic research of the Vijayapura Banjara Lambani community and their cultural practice of the craft. Developed suggestions for the Market Adaptation and Product Diversification opportunities based on trend research and forecasts backed by WGSN 2025-2026 insights.

SAE BAJA e-ATV Competition 2022 *SolidWorks, ANSYS, Lotus Shark, MATLAB*

Lead Designer for the university SAE Baja Team. Designed, analyzed, and fabricated suspension, braking, and wheel assembly, and steering components for an electric All-Terrain Vehicle (e-ATV). Compiled comprehensive performance and financial reports.

ASME Student Design Competition 2022 *Design Thinking, Rapid Prototyping*

Team Lead for the ASME SDC team representing my university. Designed a robot powered by potential energy, achieving World Rank 7. Engineered a highly power-dense system with advanced maneuvering capabilities.

International Planetary Aerial Systems Challenge 2021

Designed and rendered a UAV for Mars-based payload and reconnaissance missions. Focused on rotor design, take-off, hovering, and landing mechanisms.

AWARDS AND VOLUNTEER WORK

Team Lead, Placement Cell, Department of Design Space, NIFT Bengaluru

PR Team Lead for the Placement Cell of my department.

2025-2027

E-Cell, NIFT Bengaluru

Founding member of the NIFT Entrepreneurship Cell, representing all the design departments.

2026-2027

Best Paper Award

National Conference on Wind Engineering 2024

Won the Best Paper Award at NCWE 2024 for my paper "Investigations into Stall Flutter using Recurrence Network Analysis."

March 2024

Society of Automotive Engineers (SAE), India

Mentored junior teams in manufacturing processes and design methodologies.

2021-2024

American Society of Mechanical Engineers (ASME), India

Assisted junior teams with design practices and problem-solving.

2020-2022

Debate Society, Shiv Nadar IoE

Mentored first and second year students for inter-college debate competitions. Organized open debate sessions to encourage discussions on current matters.

2021-2022