

# SHREE NIDHI GOWTHAMAN

**PERMANENT ADDRESS:** Narayanapuram, Madurai, Tamil Nadu.

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## SUMMARY

I am a versatile professional with a background in architecture and urban planning, driven by a strong commitment to the environment. After gaining early design experience in retail, I shifted my focus to urban planning, specializing in urban housing, and furthered my expertise with a Master's in Urban Housing from CEPT University, where I explored housing policies. My brief internship experience in water management deepened my commitment to sustainability, and I am currently focused on developing strategies to address urban heating and cooling challenges. I thrive on adaptability and interdisciplinary work, always seeking innovative solutions to urban and environmental issues.

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## WORK EXPERIENCE

### **International Forum for Environment, Sustainability & Technology (iFOREST), NOIDA, UP Research Associate (08 Months; June 2024 to Present).**

- Integrated Heating & Cooling Action Plan for Bhubaneswar, Odisha.
  - Engaged with ULBs, WATCO & TPCODL to procure key urban infrastructure data.
  - Conceptualized research methodologies, including the development of a Ward-wise Heat Risk Index (HRI) for targeted climate resilience strategies.
  - Modelled city-wide Cooling Demand scenarios projected until 2050, integrating findings with Bhubaneswar's electricity consumption profile to identify cooling gaps.
  - Conducted comprehensive climate analyses – assessing heat alert protocols, analysing methodologies to account for the frequency of warm nights. Incorporated the role of humidity in heat index calculations to better understand human heat stress responses.
  - Investigated economic and productivity losses linked to heat exposure, highlighting the broader socio-economic impacts of urban heat stress.
  - Utilized QGIS for geospatial analysis and made extensive use of Microsoft Excel for data processing and modelling.
  - Collected data on new and modified construction projects to evaluate potential for district cooling systems across wards.
- Third party audit of Solid & Liquid waste management infrastructure in UP
  - Compiled findings of an inspection conducted to assess the operability of solid & liquid waste management plants/facilities in multiple cities of Uttar Pradesh as part of the Environment Monitoring Cell's responsibility.

### **Future Research Design Company (FRDC), Bengaluru, Karnataka. Assistant Architect (06 Months; February 2022 to July 2022).**

Worked extensively on Good-for-Construction drawings in the field of retail design thereby developing an eye for detail. Utilised opportunities to conceive conceptual layouts and elevation design sketches. Exhibited project management skills along with multi-tasking abilities.

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## INTERNSHIPS

### **Biome Environmental Trust, Bengaluru, Karnataka.**

**Intern (02 Months; 15<sup>th</sup> May, 2023 to 15<sup>th</sup> July, 2023).**

Integrated Water Management – Conducted water quality testing & ecological surveys to inform evidence-based restoration plans. Collaborated closely with local authorities, community stakeholders and environmental experts. Developed interventions for lakes & well restoration from an urban planning perspective.

### **Future Research Design Company (FRDC), Bengaluru, Karnataka.**

**Intern (06 Months; June, 2019 to November, 2019).**

Project management and design thinking involving high-profile retail firms as clients. Worked diligently on good-for-construction drawings. Generated 3-dimensional visualisations of designs.

### **Mani Ram Design Den, Madurai, Tamil Nadu.**

**Trainee (01 Month; December, 2017 to December, 2017).**

Worked on architectural drawings with an exposure to a variety of residential projects. Developed attention to detail by generating working drawings extensively.

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## EDUCATION

### **Master of Urban Housing (2022 - 2024) \* Currently Pursuing**

CEPT University | C.G.P.A – 3.30 / 5.00 | Percentage – 76 %

### **Bachelor of Architecture (2016-2021)**

Thiagarajar College of Engineering | Anna University | C. G. P. A. – 7.71 / 10.00

### **State Board of School Examinations, Tamil Nadu – 12th (2016)**

C.E.O.A Matric Higher Secondary School | Percentage – 91.58 %

### **Indian Certificate of Secondary Education – 10th (2014)**

Lakshmi School | Percentage – 81.66%

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## SOFTWARE

QGIS, ArcGIS, Microsoft Office, AutoCAD, SketchUp, & Photoshop CS6

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## AREA OF INTEREST

Urban Climate Resilience & Heat Risk Management, Sustainable Cooling Solutions, Urban Infrastructure Planning & Policy Development, Geospatial Analysis, Building Energy Performance

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## PRIME ACADEMIC PROJECTS

- 1. Directed Research Project – Addressing Urban Homelessness: Needs & Challenges of Ahmedabad's Homeless Population** – In collaboration with UNICEF, this research aims to explore the challenges faced by the homeless urban dwellers, particularly by vulnerable groups like women & children. The project focusses on analysing social protection & service delivery. It shall majorly deal with evaluation of the functioning of NULM-SUH scheme in Ahmedabad.
- 2. Improved delivery of serviced land to the housing market – Vadodara:** The project focussed on understanding the entire spectrum of housing from homelessness to high-end housing market in the city of Vadodara at a macro level. An in-depth analysis of the issues pertaining to delivery of serviced land through Town Planning Schemes were studied and analysed.
- 3. Understanding the City – Nikol, Ahmedabad:** It focusses on examining a particular neighbourhood of a city through various lenses and understanding its relationship with the city at macro level. Site specific studies and surveys to understand its infrastructure services, housing market, public realm, street network, built form, land use, etc were dealt with in detail.

- 4. Architectural Thesis - Welfare Centre for Upliftment of Tribal Communities, Malappuram:** Individual project on formulating project brief based on community requirements. Conceptual design thinking followed by architectural drawings. Secondary research on vernacular methods of construction and sustainability studies.
- 5. Bus Terminus, Madurai:** Focussed on creating a space for the larger public serving a public transit utility. Tuned in design solutions to convert pockets of space into interaction spots. Worked on conceptual level zoning until final architectural drawings followed by working drawings.

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## CONFERENCES ATTENDED

1. Global Just Transition Dialogue 2024 – by iFOREST
2. Forum on Energy Efficiency & Decarbonisation (FEED) 2025 – by AEEE
3. Seminar on Urban Housing: Emerging Trends, Issues & Insights at MSU, Vadodara.
4. Usable Pasts, Sustainable Futures: The Housing Lab at Ahmedabad University.
5. Zonal NASA Convention 2019, Eranad Knowledge City, Manjeri, Kerala.
6. Sustainable Building with CSEB technology, Auroville Earth Institute, Pondicherry.

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## ACADEMIC ACHIEVEMENTS

1. Directed Research Project (2024) nominated by CEPT for DAIDA Global Urban Thesis Award.
2. Top 40 in HUDCO (Housing & Urban Development Corporation) Trophy, Annual NASA Convention 2018.
3. Top 40 in ANDC (Annual NASA Design Competition) Trophy, Zonal NASA Convention 2019

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## PROFESSIONAL SKILLS

Team-player, Project Management, Problem-Solving, Coordination, Communication & Organizational Skills, Report Writing, Technical Documentation, Cross-Functional Collaboration

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## PERSONAL DETAILS

Date of Birth: 30<sup>th</sup> December 1998  
Languages: English | Tamil | Hindi  
Nationality: INDIAN

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## DECLARATION

I hereby declare that the above-mentioned details in this resume are true, complete and correct to the best of my knowledge and belief.

**PLACE:** NOIDA, Uttar Pradesh

(Shree Nidhi)