

# Sayan Modak

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## Summary

As an architect with 7 years of experience and a master's student in Urban Infrastructure Planning with a major in WASH, I bring a valuable blend of skills. I possess a deep understanding of project management, design, and construction methodologies, as well as hands-on experience in developing and implementing WASH programs. With my passion for sustainable urban development and problem-solving skills, I am confident in my ability to make a positive impact on the lives of vulnerable communities. I am excited about the opportunity to contribute to organization's mission and help provide clean water, sanitation, and hygiene to those in need.

## Experience

**Design Accord Consultants** (February 2015 – July 2021)  
*Senior Project Architect*

Concept Presentation | Client Management | Site Supervision and Co-ordination | Concept Development | Design Development | BOQ and Estimation | Working Drawing Checking

**ASCI- Administrative Staff College of India** (June 2022 – August 2022)  
*Summer internship*

Decentralized wastewater treatment scenarios in private properties – a Pan India study

## Education

**Master's in urban Infrastructure Planning (Major in WASH)**  
CEPT, University (2021-2023, Ongoing)  
Average Percentage till Semester 3 - 75%

**Bachelor's in architecture**  
IEST, Shibpur (2009-2014, Completed)  
Average Percentage – 66%

**High School Graduation**  
Jadavpur Vidyapith, WBCHSE (2009, Completed)  
Average Percentage – 86%

**School Graduation**  
Ballygunge Govt. High School, WBBSE (2007, Completed)  
Average Percentage – 94%

## Software Skills

**Designing:** AutoCAD, Revit Architecture, SketchUP, ArcGIS,  
**Presentation:** Microsoft PowerPoint, Google Slides, Adobe Photoshop, Adobe InDesign  
**Official Works:** Microsoft Office Suit, Google Applications

## Area of Interest

Water, Sanitation, and Hygiene (WASH) | Sustainable Development Goals (SDGs) | Public Health | Community Development | Project Management | Capacity Building | Behaviour Change Communication (BCC) | Water Supply Systems | Sanitation Facilities | Hygiene Promotion | Disaster Risk Reduction (DRR) | Gender Equality and Social Inclusion (GESI) | Monitoring and Evaluation (M&E) | Humanitarian Response | Partnership Development | Sustainable Development | Climate Resilient City Planning | Data Analysis & Visualisation | BusinessModels | Finance in Urban Infrastructure | Water Sanitation and Hygiene in Global Cities | Water Security in the Indian Cities | Budget Analysis for Urban Local Bodies | Policy Research and Framework

## Prime Academic Projects

### **A Step towards Indore's Water Security**

A tertiary sewage treatment plant (TTP/TSTP) treats wastewater from a primary/secondary sewage treatment plant (STP) to produce industrial-grade water. Indore's 90 MLD industrial water demand is currently met by potable quality Narmada River. The new TTP will fulfill this demand by REUSING the treated wastewater, with the aim of selling industrial-grade water to RECOVER the o&m cost of the facility & generate a solid revenue base for the future to create a profitable & sustainable business model for wastewater treatment. The Project perceives wastewater as a RESOURCE and aims to reduce the dependency on potable water for industrial production.

### **Estimating and comparing Solid Waste Generation and Water Supply Demand of Ahmedabad's different Localities for different Future Economic Situation**

Future demand of a city is often estimated by projecting the population using Census data which is based on factors like birth rate, death rate, and city-level migration. The real estate demand trends are often neglected in this method which leads to gaps in the infrastructure supply. The shortcoming of the Census based projections can be mitigated by incorporating micro level housing demand. Thus, offering the Urban Local Bodies, an alternative method using parameters like potential FSI, vacant land, property price and good housing stock to estimate their supply.

### **PAANI (Preparedness & Awareness Assessment of Neighborhoods during Inundation: A Study of Rajkot Slums)**

Paani is a toolkit that assesses a community's current flood resilience for the first two phases of DRM cycle (prevention/mitigation and preparedness). By strengthening the first two phases, the associated

risks, and emergencies of the other two phases (response and recovery) can be reduced to minimal. The application of Paani and findings from it indicates the areas that needs immediate attention for a specific community. By applying Paani to every flood vulnerable community and catering to the results will increase the Rajkot's flood resilience by multiple fold.

## Prime Academic Projects

### Assessing Water Services inside Rohingya Refugee Camps in Ukhiya, Cox's Bazar, Bangladesh (Directed Research Project, Ongoing)

My research project focuses on assessing the water services inside Rohingya refugee camps in Cox's Bazar, Bangladesh, with a focus on water supply quantity, access to water services, and source sustainability. With over 1 million refugees living in overcrowded camps, access to safe water is a critical issue. My study aims to provide insights into the current state of water services in the camps, identify areas for improvement, and propose solutions to ensure sustainable access to safe water for the refugees.

## Academic Achievements

2 years 100% merit scholarship in CEPT, University (Ongoing)  
Winners & Special mention in ZoNASA Design competitions (2009-2013)  
Zonal champion of Archumen by Ethos (2012-13)

## Professional Skills

Good Communication | Time Management | Team & Client Handling, Analytical skills | Critical thinking | Resilience | Collaborative Learning | Creativity | Presentation & Academic research

## Personal Details

**Date of Birth:** May 10, 1991  
**Language Proficiency:** English, Bengali, Hindi  
**Nationality:** Indian

## 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:** Ahmedabad, India

**Date:** April 05, 2023