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Surjyatapa Ray

I am an Architect/ Urbanist working in the intersection of urbanism, emergent technologies, and inclusivity research. With the belief that access to knowledge and resources is the cornerstone of development, my work and research aims to bridge the knowledge and skill gap in Architecture, Engineering and Construction (AEC) industry, through the application of emergent technologies and community planning strategies.

EDUCATION

MEng (Digital Fabrication)

The University of Tokyo
Sept. 2018 - Sept. 2020

BArch

Chandigarh College of Architecture
Jul. 2011 - Oct. 2016

SKILLS

Industry knowledge

Affordable Housing
Urban Design Guidelines
Digital Fabrication
Systems thinking

Computational design:

Grasshopper, Processing, Python

Tools/Technology:

Rhino3D, Sketchup, AutoCAD
Twinmotion, Rhino VRay
Adobe Creative Suite (Photoshop, Indesign, Illustrator, After Effects, Premiere Pro, XD, Lightroom)

Soft skills:

Empathy, Critical thinking, Verbal and Written communication, Leadership

EXPERIENCE

Jan. 2022 - Present

Associate | Jana Urban Space, Bengaluru

Sep. 2020 - Dec. 2020

Independent Researcher/ Urban Consultant

Key projects:

- DPR for ecotourism in Deepor Beel Wetland Park, Assam focusing on social sustainability and community planning
- Research on governance framework of Fecal Sludge Management (FSM) in developing countries

Nov. 2019 - Aug. 2020

Urban Designer | Nikken Sekkei, Tokyo

Key responsibilities:

- Design research for Urban Development Projects
- Technical design and visualisation for Master Plans
- Assisting in the formulation of Urban Design Guidelines

Sept. 2019 - Aug. 2020

Graduate Teaching Assistant | The University of Tokyo

Global Education for Innovation and Leadership

Key responsibilities:

- Guide students on the application of SDGs across various sectors
- Train and assist students in academic research, presentations
- Organize lectures, workshops, and webinars

Jan. 2017 - Apr. 2018

Junior Architect | HCPDPM Ahmedabad

Key responsibilities:

- Assist in writing and preparing Master Plan and Detailed Project Reports
- Technical design for Riverfront Development Projects
- Conduct consultants and discussions with external consultants, stakeholders, and experts

PUBLICATIONS

1. Ray Choudhury, S. (2021). **Pucca 5.0: A framework for a digital system to aid informal self-construction**. Projections - Proceedings of the 26th International Conference of the Association for Computer-Aided Architectural Design Research in Asia, CAADRIA 2021, 1, 703–712.
2. Bugalia, N., Ray Choudhury, S., Maemura, Y., & Seetharam, K. **A Systems Theoretic Process Analysis (STPA) approach for analyzing the governance structure of Faecal Sludge Management (FSM) in Japan**. Environment And Planning B: Urban Analytics And City Science.

ACHIEVEMENTS

- **Norman Foster Foundation Scholar** | May 2019
Scholar for the 'On Cities' workshop focused on new opportunities in Informal Settlements that integrate emerging technologies
- **JASSO Monbukagakusho Scholarship** | 2018 - 2020
Honors scholarship for graduate studies at The University of Tokyo
- **Nihon Chozai SEUT Scholarship** | 2018 - 2020
Honors scholarship for graduate studies at The University of Tokyo
- **Kailash Sodhi Scholarship** | October 2016
Thesis award for best Mass Housing/ Low-cost Housing research
- **Anandaram Barooah Award** | May 2008
State Government Award for Distinction in High School Exam

VOLUNTEER WORK

- **for Cities Initiative** | Apr. 2021 - Present
Country Ambassador
- **Ann Foundation (UNV)** | Jul. 2019 - Dec. 2020
Tutor
- **Included.org** | Jul. 2014 - Dec. 2014
Design Intern [Disaster Resilience in Informal Settlements]

LANGUAGES

English	Proficient
Hindi	Proficient
Assamese	Proficient
Bengali	Native