

# NISCHAY TIRUPATI

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## EDUCATION

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**Rochester Institute of Technology, Rochester, NY**

**May 2025**

Master of Architecture, Sustainability

Courses: Architectural Studio (Site, Urban), Integrated Building Systems, Passive House Design, Sustainable Building Metrics, Industrial Ecology Fundamentals, Architectural Theory, Understanding Sustainability, Project Management, Agile Project Management, Urban and Regional Planning, Construction Cost Analysis and Management

**Sri Venkateswara College of Architecture, JNAFAU, Hyderabad, India**

**June 2022**

Bachelor of Architecture

Courses: Architectural Design, Building Construction, Building Materials, Architectural Drawings and Graphics, Structural Mechanics, Surveying and Leveling, History of Architecture, Building Services, Climatology, Landscape Design and Site Planning, Design of Structures, Building Estimating Costing and Specifications, Building codes and Bylaws, Building Economics and Sociology, Human Settlements and Town planning, Barrier free Built Environment, Advanced Design Studio (Housing), Advanced Construction and Materials, Advanced Structural Systems, Advanced Services, Green Buildings & Infrastructure, Architectural Illumination, Thesis (Science City Design)

## SKILLS

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- **2D Design Software:** AutoCAD
- **3D Design Software:** Revit, Sketchup
- **Rendering and Editing:** Lumion, V-Ray, Enscape, Photoshop, Illustrator
- **Software/Tools/OS:** Microsoft Word, Excel, PowerPoint, Cove. Tool, Athena

## EXPERIENCE

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**Datrika Architects**

**Hyderabad, India**

**Junior Architect**

**July 2021 – June 2022**

- Developed a luxurious amenity-filled residential property for a nuclear family in conjunction with the principal architect. Successfully directed the project's on-site execution from start to finish and independently managed the creation of floor plans, elevation designs, and site execution drawings.
- Engaged in several small-scale projects aimed at renovating pre-existing buildings, with a focus on the preparation and synchronization of executional drawings.
- Contributed to interior design efforts across all projects and actively participated in their execution.

**Studio ADI**

**Hyderabad, India**

**Architectural Intern.**

**February 2021 – June 2021**

- Served as a draftsman for numerous large-scale healthcare facilities, actively participating in the development of plans for services and site executions.
- Generated 3D renders and presentations to facilitate client understanding and enhance the visual representation of projects during presentations.

**Spaarcs Architects and Interiors**

**Hyderabad, India**

**Architectural Intern.**

**October 2020 – February 2021**

- Participated in the conceptualization of basic design ideas for both architectural and interior design projects, including the generation of working drawings.
- Conducted client meetings to gather comprehensive information about their requirements and actively engaged them in the design process, balancing both aesthetic and economic considerations.

## PROJECTS

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**Recreational and Skill Development Community Center (Architectural Studio – Urban), RIT**

**April 2023**

- Directed the design of a 1.45-acre community center with a steel structure that addresses urban difficulties and promotes diversity through recreational spaces and necessary amenities. The center is ideally positioned on the inner loop, Rochester NY, next to Schiller's Park.

- Conducted a comprehensive project approach by engaging in thorough reviews and research on urban equity, program precedent, and steel structure, coupled with in-depth site analysis, zoning code scrutiny, and examination of urban scape precedents, to inform and shape the design decisions for the community center.

**"Sustainable Subaquatic Metropolis: Blending Scale Modeling, Creative Design, and Community Education", RIT April 2022**

- Created and delivered a 1:96 scale sustainable city model (Underwater City) with a HO scale model railroad. designed an interactive educational resource with a visually arresting poster for Imagine RIT attendees. Showed how to combine scale modeling, creative design, and outreach to the community for education.

**Environmental Research Center (Architectural Studio – Site), RIT December 2023**

- Led the comprehensive design of a small-scale Environmental Research Station situated within a national park, emphasizing functionality and sustainability to support month-long research expeditions focused on monitoring climate, wildlife, and vegetation. Ensured seamless integration into the park's natural context with a focus on off-grid sustainability and self-sufficiency.
- Spearheaded the programming, analysis, and schematic design phases, incorporating multiple conceptualizations at distinct locations within the park. Prioritized the station's environmental impact by implementing features such as energy self-sufficiency, water collection, composting toilet systems, and off-grid functionality, reflecting a commitment to sustainable design practices.

**Greater Rochester Visitor Center (Architectural Studio – Site), RIT December 2023**

- Orchestrated the comprehensive design and planning of a state-of-the-art Visitor Center for the Greater Rochester area, strategically located in Henrietta, NY, with a focus on creating an impressive landmark visible from the Genesee Expressway, promoting pedestrian exploration, and stimulating economic development through tourism.
- Spearheaded individual efforts in master planning, conceptualization, criteria design, and schematic design phases, ensuring the integration of programmatic requirements and responding effectively to site opportunities and constraints, resulting in a defensible and visually striking master plan and site/building design.

## **ACHIEVEMENTS AND CERTIFICATIONS**

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- Project Management (Advanced Certificate) – Project Management Institute – In Progress
- RIT Graduate Scholarship