# Exponent®
### Engineering & Scientific Consulting

## Minathi Nambi

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## Professional Profile

As a member of the Construction Consulting team, Ms. Nambi specializes in project management, project controls, and construction claims and disputes. With experience across both public and private sector projects, she has worked on infrastructure maintenance planning, sustainability-driven construction initiatives, and the integration of emerging technologies in project execution. Her expertise includes transportation infrastructure management, consulting on large-scale capital projects, and leveraging data-driven insights to optimize project efficiency and mitigate risks.

Prior to joining Exponent, Ms. Nambi's work was focused in project controls and asset management for major transportation infrastructure, where she developed maintenance job plans, tracked project progress, coordinated with contractors, and analyzed repair schedules to improve operational efficiency. She also gained experience in cost control, regulatory compliance and schedule optimization while working on a large-scale green building construction project with one of India's largest general contractors. Additionally, her research in digital transformation and construction innovation includes developing Digital Twin adoption frameworks for international clients and implementing data-driven decision-making strategies to enhance project monitoring and execution.

Ms. Nambi holds a Master of Science in Civil Engineering with a specialization in Construction Management from Columbia University.

## Academic Credentials & Professional Honors

M.S., Civil Engineering and Engineering Mechanics, Columbia University, 2024

B.S.E., Civil Engineering, College of Engineering Guindy,Anna University, 2023

## Prior Experience

Project Management Intern, The Port Authority of New York & New Jersey, June 2024 – December 2024

Project Management Intern, Larsen & Toubro, July 2022 – September 2022

Project Intern, Center for Urbanization, Buildings & Environment, July 2021 – September 2021

Research Analyst, Global Leaders in Construction Management, September 2023 – December 2024

## Project Experience

- **Infrastructure Maintenance Optimization** – Developed and optimized maintenance job plans for critical transportation infrastructure, focusing on task sequencing and resource allocation to enhance operational efficiency and safety. Coordinated with contractors and internal teams to validate and track priority repairs across multiple facilities.
- **Green Building Project Management** – Contributed to the project management and cost optimization efforts of a sustainable construction project for a research and development facility. Assisted in contract document management, timeline coordination, and implementation of sustainability standards. Identified strategies to improve cost efficiency while ensuring compliance with green building regulations.
- **Digital Transformation in Construction** – Led a research initiative analyzing digital transformation strategies for the construction industry. Developed a framework for Digital Twin adoption to enhance project monitoring and decision-making for large-scale infrastructure projects.
- **Data-Driven Project Controls Strategy** – Collaborated with a global Oil and Gas company to address data silos in construction management for capital projects. Conducted a comprehensive cross-industry analysis to identify best practices in digital integration. Developed a strategic framework for improving data standardization and accessibility to enhance decision-making and project efficiency.