RISHABH MITTAL, PTP

PROJECT TITLE
Transportation Lead

EDUCATION
Master of Science, Civil Engineering – Transport & Planning, Technical University Delft, The Netherlands, 2020

Bachelor of Science, Civil Engineering, SRM University, Chennai, India, 2016

YEARS OF EXPERIENCE:
6

PROFESSIONAL CERTIFICATION:
Professional Transport Planner (PTP) – 905, Transportation Professional Certification Board, 2025

PROFESSIONAL AFFILIATIONS:
Institute of Transportation Engineers - ITE

SUMMARY

Rishabh is an experienced Transport Planner who brings together his diverse international experience to help his clients navigate through the challenges. He has worked on a variety of projects, from major train stations, museums, state parks, and various mixed-use development projects. His transport and planning practice is guided by his belief that most people lead a multi-modal life. Thus, a transportation system should provide people with the freedom to make choices while ensuring safety, comfort, and reliability for all modes.

WORK EXPERIENCE

West River Park Renewal, New Haven, CT - Walking Audit, Traffic Safety, Accessibility, Community Outreach (2024-25)
Rishabh led two walking audits of West River Memorial Park for the north and south sections, respectively, in support of the West River Watershed Coalition's effort to generate community engagement while assessing accessibility, pedestrian safety, and connectivity issues on the streets surrounding the park. Rishabh designed custom walking audit forms for each of the roadways surrounding the park, enabling participants to make detailed notes on their observations and concerns.

Crash Analysis Studio at Nicoll and Willow St Intersection, New Haven, CT – Data Collection, Crash Analysis, Public Engagement (2024-25)
Rishabh, drawing on both his technical expertise and local knowledge, organized and led an on-site data collection effort, including speed studies and roadway measurements, and conducted a comprehensive analysis of five years of historical crash data. Based on this analysis, Rishabh identified the key factors contributing to crashes and unsafe pedestrian conditions and developed clear, actionable design recommendations for the City to implement.

Lawrence Street Plaza, New Haven, CT – Placemaking, Open Streets, Traffic Safety, Public Spaces, Public Outreach (2024-25)
The Lawrence Street Plaza is an open-street initiative in which a portion of the roadway is temporarily converted into a community space for people to gather, play, and organize events. Rishabh supported the planning and design of the plaza layout, helped articulate the need for public spaces in the neighborhood, and highlighted the traffic safety benefits the plaza brings to the community. His ability to connect technical transportation considerations with human-centered placemaking goals strengthened both the project's design and its public reception.

NJ Transit, Newark Penn Station Renovations, NJ – Pedestrian Planning & Modelling (2023-24)
NJ TRANSIT was planning to modernize Newark Penn Station and redevelop its surrounding area into a Transit-Oriented Development (TOD). Rishabh, as a transport planner, assisted the team in understanding the movement of people at this station. He led the development of a pedestrian simulation model for various scenarios, such as future no-build scenarios and special events, including AM and PM peaks. He was responsible for identifying the inputs for the model, simulating pedestrian movements, and helping the client understand the challenges and limitations of the current station design.

NJDEEP, Liberty State Park Revitalization, NJ – Multimodal planning, Transit Feasibility Study (2023-24)
Rishabh was part of the planning and visioning team that worked on understanding and advising on the future mobility patterns within this 1000-acre park. The team looked at multiple modes, such as walking, micro-mobility, and internal circulator service, for people to easily move within the park. Rishabh led the planning and feasibility study for an internal circulator service to connect the light rail station to various amenities and attraction points within this large park area.

Confidential Office Building, Financial District, New York - Pedestrian Planning (2023-24)
This project was for a large corporate office building in New York City. Rishabh estimated peak usage and provided capacity analysis for the entry lobby and the building's food court during office hours. He then worked with the operations team to suggest solutions to mitigate critical conditions of crowding and queuing.

Confidential Corporate Building, CA – Pedestrian Flow Analysis (2023-24)
Rishabh performed static pedestrian analysis for various design options at the entrance of this office building. For this building, ensuring security at the entrance was important for the client. Rishabh was able to identify challenges and propose solutions.

MNR, Grand Central Terminal, New York – Advanced Data Collection & Analysis (2021-23)
Metro-North Railroad (MNR) wanted to understand the current pedestrian flow conditions at Grand Central Terminal and model them using a crowd simulation model. Rishabh was part of the team that undertook a large data collection effort to understand terminal usage at various parts. Rishabh led the development of advanced computer vision and Machine Learning frameworks to analyze all the visual data collected using cameras. This data was then used to inform a crowd simulation model, which simulated various scenarios for the terminal.

Dutch Railways, Amsterdam South Station, Amsterdam – Pedestrian Modelling, Design Analysis, Workflow Automation, Python Scripting (2020-22)
This is a redevelopment project for the old train station of Amsterdam South into an integrated multi-modal transport hub. Rishabh assisted the team in building the pedestrian model for different spatial and functional configurations of the station with present and future user demands. He led the simulation and analysis of different design options, time of day, and for various construction phases. Rishabh also used his Python scripting knowledge to automate data manipulation, improve the workflow for building the simulation model, and report model results.

SADC, Schiphol Trade Park, Netherlands – Traffic Impact Study, Demand Management Strategies (2021-22)

Rishabh led the overall transportation planning and mobility study for this mixed-use development of 450,000 sq. meters (or 111 acres) near Schiphol Airport. He estimated the traffic impact of this large-scale development and its effect on the overall road network in the area. He also estimated the parking requirements for this development according to the local norms. To help reduce the parking demand and the overall traffic generation from this site, the developer and the local municipality wanted to encourage the use of sustainable mobility at this location. Thus, Rishabh helped draft a sustainable mobility plan to encourage a model shift from cars to active models and public transport to reduce emissions and increase the quality of development. These strategies included employee incentives for carpooling, using public transport, and biking for commuting. Additionally, the availability of car-share services at office locations for business needs was also investigated.

City of Amsterdam, Design Study for City and Spaces, Amsterdam- Neighborhood Planning, Transport Planning, Climate Risk Mitigation (2021-22)

This was a design study project commissioned by the city of Amsterdam. The project team was tasked to understand an old historical neighborhood in Amsterdam (Bellamubuurt) and lay out the future vision of the area while adapting to climate change, meeting sustainability goals, and improving the quality of life for its residents. Rishabh played his role in drafting a vision for the future of mobility and suggested removing on-street parking spaces to bring more space for bikes, walking, and green areas, which would reduce heat stress and mitigate flooding risks by allowing rainwater to penetrate the ground. These policies were in line with Amsterdam's vision to promote active modes and nature-based solutions in the city.

NTT Data Centre, Amsterdam – Vehicle Emission Estimation (2021-22)

Rishabh led the vehicle emissions calculations for the data center site being planned in Amsterdam. Vehicle emissions were estimated during the construction phase and afterwards due to the daily operations of this data center.

Museum Boijmans Van Beuningen, Rotterdam – Pedestrian Planning, Design Analysis (2020-21)

This was a study to analyze different museum layouts from the perspective of pedestrian flows during peak hours and evacuation scenarios. Using the inputs from the client, Rishabh estimated peak demands, mapped visitor flows, and analyzed the Level of Service and evacuation times for each of the layouts. He also identified the shortfalls of each layout and recommended its solutions to the client.

SKILLS & EXPERTISE

AutoCAD – AutoTURN – Massmotion – Vissim/Viswalk – GIS – Python Programming
Street Design – Traffic Data Collection & Analysis – Crash Analysis - Technical Writing