

MOHAMMAD ZIYAN

[LinkedIn](#) | Contact No: +3 [REDACTED]

ABOUT ME

Master's degree graduate in Transport Systems Engineering from Sapienza University of Rome, Italy. Experience in Road Construction and project management.

SKILLS

GIS: QGIS, ArcGIS

Traffic Simulation: PTV Vissim, PTV Viswalk

CAD and 3D Modelling: AutoCAD, Autodesk Civil 3D, Google Sketchup

Programming: Python, MATLAB script

Others: Microsoft Office (Word, Excel, PowerPoint), LaTeX, Microsoft Power Bi, Tableau, Adobe Photoshop.

EDUCATION

Sapienza University of Rome

Rome, Italy

Master's Degree in Transport Systems Engineering

Nov. 2021 – Jan. 2024

Thesis: Data Structures and Procedures for Modelling the Urban Mobility Demand

Dr. A.P.J. Abdul Kalam Technical University, Lucknow

Lucknow, India

Bachelor's Degree in Civil Engineering

July. 2017 – June. 2020

Thesis: Design of Rigid Pavement for Dual-Lane Carriageway

Aligarh Muslim University

Aligarh, India

Diploma in Engineering

Aug. 2012 – June. 2016

Thesis: Design and Simulation of Sun Court Towers

WORK EXPERIENCE

ISFORT S.P.A – Rome, Italy

Sep. 2023 – Dec. 2023

Transport Engineer – Intern

- Demographics for the Marche region in Italy were analyzed using ISTAT Census Data for zoning.
- Audimob Generation and Distribution model were used for Demand Estimation for each zone.
- Compared the traffic datasets using GEH Statistics for the model accuracy.

Shri Krishna and Company, Uttar Pradesh, India

May. 2020 – June. 2021

Site Engineer

- Developed the pavement sections using AutoCAD and improved the overall project feasibility.
- Got Hands on experience of pavement construction, oversaw the budget, schedules, and quality control for the project to make it sustainable and budget friendly.

Shri Krishna and Company, Uttar Pradesh, India

June. 2019 – Nov. 2019

Civil Engineer – Intern

- Got introduced to road construction procedures and machinery.
 - Observed the drawings and their implementations on the Project.
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PROJECTS

Data Structures and Procedures for Modelling the Urban Mobility Demand

- Identified key urban mobility challenges in San Benedetto, Marche, Italy, emphasizing factors influencing the issues.
- Applied the Audimob model to ISTAT census data for demand estimation and validated the datasets with GEH Statistics to measure the modelled parameters accuracy.

Traffic Signal Setting Design (HCM) - A Case Study of 6 Intersections in Via Tuscolana, Rome, Italy

- Traffic flow was analyzed for the delay between six consecutive intersections using field observation.
- Optimization strategies focused on adjusting signal timings were applied to improve traffic flow and reduce congestion.

Analysis of the Railway line between Castle Lagopesole and Potenza Centrale, Italy

- Examined a 24 km railway line in Italy, addressing curves, speed limits, transition curves, and timetabling.
- Enhanced train schedules, accounting for delays, and boosted Potenza Centrale station capacity.

AWARDS & ACHIEVEMENTS

- Awarded as winner of Disco Lazio (Regional Scholarship for the Right to Study) during master's degree in Italy, for session 2021-2022 & 2022-2023. *(Dec. 2021 – July. 2023)*
- Received Merit-cum-Means scholarship from the Indian government for three consecutive years during bachelor's degree. *(July. 2017 – July. 2020)*

REFERENCES

References are available as per request.