

JEEVITH KUMAR JAYAKUMAR

Los Angeles, California | (213) 245-0020 |
jeevithk@usc.edu | [linkedin.com/in/jeevithkumarjk](https://www.linkedin.com/in/jeevithkumarjk) | [jeevithjk-portfolio/](#)

EDUCATION

University of Southern California Los Angeles, California
Master in Transportation and Highway Engineering August 2024-Present
Coursework: Data Analytics for Surface Transportation, Intelligent Transport Operations, Design of Transportation Infrastructure, Digital Tools for Transportation, Transportation System Analysis, Construction Planning and Pre Construction GPA: 3.92

JSS SCIENCE AND TECHNOLOGY UNIVERSITY (JSS STU) Mysuru, Karnataka, India
Bachelor of Civil Engineering January 2019-December 2023
Coursework: Highway Engineering, Railway and Airport Engineering, Road Safety Engineering, Concrete and Highway Material Testing Lab.

PROFESSIONAL EXPERIENCE

WSP USA Portland, OR, USA
Traffic Engineering Intern May 2025- Present

- Supported traffic signal modernization, freeway widening, and bridge rehabilitation projects in Hawaii, Utah, Washington, Idaho, and California, ensuring compliance with the MUTCD and state DOT standards.
- Built and calibrated detailed traffic simulation models in PTV Vissim and Synchro, performed capacity analysis, and optimized signal timings to improve intersection efficiency.
- Prepared signing, striping plans, lane geometry layouts, and lighting designs in AutoCAD, validated field data, and prepared technical reports.
- Led traffic analysis and design coordination across multiple Pacific Northwest projects, optimizing signal operations, preparing technical deliverables, and ensuring compliance with regional transportation standards.

M.J ASSOCIATES Gundlupet, India
Junior Civil Engineer, Site Management July 2023-May 2024

- Led concrete road construction for 15 rural roads, enhancing road quality and durability.
- Managed installation of rural drainage systems for 10 projects, achieving effective water management and compliance.
- Planned and managed 15 concrete road and drainage projects, ensuring timely and high-quality completion.

NATIONAL HIGHWAY AUTHORITY OF INDIA (NHAI) Ramanagara, Karnataka, India
(Ministry of Road Transport and Highways, Government of India)
Trainee Engineer, 6 Laning of Nidaghatta-Mysore NH-275 August 2022-September 2022

- Supported the INR 3,500 crore Mysuru-Bengaluru Express Highway Project, focusing on 6-laning of 61.1 km, contributing to design implementation and construction planning.
- Performed on-site inspections and material testing to ensure construction quality and adherence to engineering specifications.
- Assessed project safety protocols and compliance across 50+ locations, reducing risks and ensuring conformity with highway standards.

ACADEMIC PROJECTS

Autonomous Shuttle Project: LA Olympics 2028 November 2024-December 2024

- Designed and proposed an Intelligent Transportation System (ITS) to connect LAX, UCLA Athlete Village, and USC Memorial Coliseum via autonomous shuttles for the 2028 LA Olympics.
- Developed a comprehensive website for booking taxis, hotels, and transportation, featuring interactive maps of 200+ bike stations, an Olympics calendar, and travel plans to support millions of visitors.
- Analyzed 122,539 data points using R Software to optimize routes and integrate EV charging and micro-mobility hubs, 30% improvement in operational efficiency, and a 20% decrease in congestion while enhancing transit accessibility.

Experimental Investigation on Behavior of Circular Footing Resting on Sand, (JSS STU) March 2023-July 2023

- Investigated load-bearing capacity and settlement behavior of circular footings reinforced with plastic Geocell as part of a 5-member team, comprehensive experiments.
- Demonstrated plastic geocells as a durable, eco-friendly, and cost-efficient alternative for soil reinforcement, boosting load-bearing capacity, reducing settlement, and increasing stability via research analysis of 12 rigorous test trials.

LEADERSHIP ROLES

Public Representative Head, Nirman Club (Technical Club of Civil, Construction Management, and Environmental Engineering)

- Directed club's public-facing initiatives for the Nirman Club, fostering collaboration and knowledge-sharing among members and industry professionals increasing club participation by 30% increase.

SKILLS AND INTERESTS

Technical Proficiency: AutoCAD, Microsoft Office, Inroads, Synchro, MicroStation, R Programming, PTV Vissim, OpenRoads, OpenRails.
Core Skills: Project Management, Transportation & Highway Design, Traffic Operations & ITS, Data Analysis & Planning, Research, Leadership.
Interests: Sustainable & Smart Transportation, Highway & Traffic Engineering, Infrastructure Planning & Design, ITS Applications, Data-Driven Transit Solutions, Mobility Innovation.

CERTIFICATIONS AND AWARDS

- Certificate in Complete AutoCAD 2018-21 course and BIM Application for Roads, Highways, and Transportation Design.
- Awarded "Best Project of the Year 2023" for final year project by Karnataka State Council for Science and Technology.
- Recognized among the Top 100 Summer Interns in the USA (2025) by National Intern Day, presented by WayUp x Yello.

MEMBERSHIPS

- Member of American Society of Civil Engineers (ASCE).
- Member of Institute of Transportation Engineer (ITE).
- Member of WTS International.