

# JEEVITH KUMAR JAYAKUMAR

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## 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 GPA: 3.85

**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

**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.
- Orchestrated planning and resources for 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

- Implemented tasks on 3,500 crore Mysuru-Bengaluru Express Highway Project, with a focus on 6 Laning of 61.104 km.
- Conducted daily site inspections and lab tests, ensuring adherence to industry standards and supporting project progress.
- Assessed safety and quality standards by inspecting 50+ site locations and performing 30+ laboratory tests, verifying conformity to industry regulations and project specifications.
- Acquired hands-on experience in project management, quality assurance and infrastructure development, impacting a major national highway upgrade crucial for economic growth.

## 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 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.
- Utilized R Software to analyze and visualize over 122,539 data points, creating optimized routes and integrating EV charging stations and micro-mobility hubs to reduce carbon emissions by an estimated 15-20%.
- Proposed Data-Driven Solutions to improve operational efficiency by 30%, reduce congestion by 20%, and enhance accessibility for attendees through user-friendly transit options.

**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.

**Analysis and Design of Multi-storied Large Scale RC Framed Structure, (JSS STU)** December 2022-February 2023

- Planned and analyzed a G+6 RC framed structure using ETABS software, contributing to team's structural design efforts.

## LEADERSHIP ROLES

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

- Directed club's public-facing initiatives, fostering collaboration and knowledge-sharing among members and industry professionals resulting in a 30% increase in club participation.

**Team Lead, Photo ON Club, J.S.S Science and Technology University**

- Managed a team of 32 photographers, capturing and showcasing key university events, elevating club's presence and quality of visual documentation.

## SKILLS AND INTERESTS

- Technical Proficiency: AutoCAD, STAAD Pro, ETABS, Primavera P6, MicroStation, R Programming, PTV Vissim, OpenRoads, OpenRails.
- Microsoft Office: Excel, Word, PowerPoint.
- Core Skills: Project Management, Transportation Planning and Analysis, Research, Sustainable Development, Leadership.
- Interests: Highway Engineering Design and planning, Transportation Engineering, Designing, 3D Drawing, Sustainable Design and Transportation Operations.

## CERTIFICATIONS AND AWARDS

- Certificate in Complete AutoCAD 2018-21 course.
- Certificate in BIM Application for Roads, Highways, and Transportation Design.
- Awarded "Best Project of year 2023" to final year project from Karnataka state council for science and Technology.

## MEMBERSHIPS

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