

## Mr. R.RAJASEKAR

### Assistant Professor

Department of Civil Engineering

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### Research Areas

- Highway & Pavement Engineering,
- Transportation Safety and Accident Analysis
- Lifecycle Asset Management and Maintenance
- Climate Resilient Infrastructure

### Academic Profile

S. No.	Course (Year of Passing)	Institution	Board	CGPA
1	<b>M.E-Transportation Engineering</b> (2021)	College of Engineering, Guindy.	Anna University	<b>9.13</b>
2	<b>B.E-Civil Engineering</b> (2015)	Dr. Mahalingam College of Engineering and Technology, Pollachi	Anna University	<b>8.76</b>

### Employment Details

From	To	Name of the Organisation	Positions Held
Dec 2025	Present	<b>University College of Engineering BIT campus Tiruchirappalli, Anna University</b>	Assistant Professor Department of Civil Engineering
July 2025	Dec 2025	<b>WSP Consultants India Private Limited, Bengaluru</b>	Senior Engineer-GCC UK Roads
Dec 2022	July 2025		Engineer-GCC UK Roads
July 2021	Dec 2022	<b>L&amp;T Infrastructure Engineering Limited, Chennai</b>	Senior Engineering Consultant-Grade I
July 2018	Sep 2019		Engineering Consultant -IV
Sep 2016	Jun 2018		Engineering Consultant -III
Sep 2015	Sep 2016		Graduate Engineering Trainee

### Publication in Conferences:

- Jegan Bharath Kumar, A., Ganeshvijay, R., Murshida, P., Rajasekar, R. (2023). "Analysis of Internal Pore Structure of Porous Asphalt Concrete Using X-ray Computed Tomography Images", Recent Trends in Transportation Infrastructure, Volume 1. TIPCE 2022. Lecture Notes in Civil Engineering, vol 354. Springer, Singapore.

[https://doi.org/10.1007/978-981-99-3142-2\\_4](https://doi.org/10.1007/978-981-99-3142-2_4)

### Workshops and Trainings Attended

S. No	NPTEL Online Certification Course 12 Week duration	Certified Institute
1	Infrastructure Planning and Management	Indian Institute of Technology Madras <b>(IIT-Madras)</b>
2	Mechanical Characterization of Bituminous Materials	
3	Geosynthetics and Reinforced Soil Structures	

- Participated in **Developments in Pavement Engineering workshop** at Indian Institute of Technology Kharagpur (**IIT-KGP**) conducted during March 14-16,2020
- Undergone **Specific Training on Highway Construction activities** for a week (17.01.2020 to 22.01.2020) at Four Laning of Tiruchirappalli to Kallagam Section of NH-227 project by **KNR Construction Limited, Trichy.**
- Participated in GIAN course on “**Design and Construction of Sustainable Concrete Pavements**” at Indian Institute of Technology Madras (**IIT-Madras**) conducted during December 09-14,2019

### Software Proficiency:

Highway Geometric Design : **Civil 3D, Open Roads Designer, MX Roads,AutoCAD**  
 Pavement Analysis & Design : **IITPAVE**  
 Traffic Sign & Others : **PDS Sign, PDS Line, Key POST, ProjectWise ,**

### Membership of Scientific and Professional Societies

- Graduate Member -Institution of Civil Engineers (**ICE**) ,UK

### Consultancy Project Experience:

Senior Engineer / Engineer-GCC UK Roads,	DEC 2022-DEC 2025
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- **A12 MRN -A1214 Main Road and Portal Avenue Junction Improvement (Detail Design Package)**

**Client:** Suffolk County Council, England

**Contribution:** Development of 2D junction layouts and 3D models; preparation of MCHW drawings

- **A30 Kennards house to Five lanes -Safety Improvement Study (Detail Design Package)**

**Client:** National Highways, England

**Contribution:** Development of 2D junction layouts and 3D models; preparation of MCHW drawings, BOQs, departures from standards, and coordination with geotechnical and structural teams.

- **Feasibility design of M5 J12 junction Improvement Scheme**

**Client:** Gloucestershire Borough Council, England

**Contribution:** Development of 2D/3D designs for junction improvement options (dumbbell and gyratory roundabouts), preparation of GA and road marking drawings, quantity extraction, and coordination with transport modelling team

- **Detail Design of A329 Reading Road Cycle and Pedestrian Improvement Scheme**

**Client:** Wokingham Borough Council, England

**Contribution:** 3D modelling of roadway with cycle track and footway; preparation of longitudinal and cross-section drawings, MCHW kerbing and pavement details, traffic signs and road markings drawings.

➤ **Detail Design of Queen Street Enhancement Package, Newton Abbot**

**Client:** Devon County Council, England

**Contribution:** 3D Modelling of Footway, raised table junction and build out, developing various MCHW series x-refs such as Kerbing, Pavement construction, and Sign and marking drawings.

➤ **Detail Design of A34 Lodge Hill-Layby Reprovision, Harwell Southbound Layby**

**Client:** National Highways, England

**Contribution:** Geometric design and 3D modelling of lay-by facilities; preparation of MCHW drawings including GA, kerbs, traffic signs and markings, and specifications

➤ **Toddington Services Southbound Merge CRI Highways DHS to ALR M1 J10-13 Stage 5 SMA**

**Client:** National Highways, England

**Contribution:** 2D/3D highway design as per DMRB standards, signage and post-foundation design, road markings, and technical documentation

**SENIOR ENGINEERING CONSULTANT**

**JULY 2021-DEC 2022**

➤ **Detailed Project Report for Integrated development of coastal highway with cycle track in Ernakulam & Thrissur Districts in the state of Kerala**

**Client:** Kerala Road Fund Board, Thiruvananthapuram

**Contribution:** Geometric design using Civil 3D, field investigations, preparation of drawings, BOQs and cost estimates, report preparation, and coordination as highway team project lead

➤ **Consultancy for detailed report and drawings for Proposed Warehouse and allied facilities (Phase-1) at Mumbai for NRC Ltd (Length-6 km, Area -94 acres)**

**Client:** Howe Engineering Projects Pvt Ltd

**Contribution:** Area grading and road geometric design using Civil 3D, stormwater design, BOQ preparation, and design basis and final report documentation

➤ **Road Safety Audits and suggesting rectification measures for 13 black spots locations on NH-716 in the state of Tamil Nadu & Andhra Pradesh**

**Client:** National Highway Authority of India, PIU Chennai

**Contribution:** Site investigations and road safety audits at identified black spots; preparation of audit and rectification reports, geometric design of remedial measures using Civil 3D, and BOQ and cost estimation.

**ENGINEERING CONSULTANT-GRADE IV****JULY 2018-SEP 2019**

- **Detail Design of Jammu Outer Ring Road in Jammu &Kashmir state (Length-57 km)**

**Client:** Gayathri Projects Ltd, Hyderabad

**Contribution:** Geometric design of main carriageway and service roads; preparation of drawings, stormwater (box drain) design, detailed BOQs, reports, and technical support during execution
- **Detail Design of Four lanning of Bar Bilara Jodhpur section of NH 112, Rajasthan state (Length-112 km)**

**Client:** L&T Transportation Infrastructure IC, Mumbai

**Contribution:** Geometric design of bypass options and change-of-scope proposals, design of major and minor intersections, preparation of detailed BOQs, and road signage and compliance documentation
- **Detail Design of Internal Roads of Ranchi Smart City Project in the state of Jharkhand (Length 22 km)**

**Client:** L&T Water Effluent & Treatment IC, Chennai

**Contribution:** Detail BOQ preparation, preparation of various reports for site execution, as supporting team member in Geometric & Drainage design

**ENGINEERING CONSULTANT-GRADE III****SEP 2016-JUN 2018**

- **Detail Project Report for four lanning Cargo Roads and Access roads to VVIP Terminal (Length -5 km) in the premises of Rajiv Gandhi International Airport, Hyderabad**

**Client:** GMR Hyderabad International Airports Ltd., Hyderabad

**Contribution:** Geometric design of highways, detailed estimates with report preparation, obtaining technical sanction approval from authorities, assisting client on tendering.
- **Detailed Project Report for six-lane Elevated Expressway from Poonamalle to Sriperumbudur section (Length -13 km) in Chennai, Tamil Nadu**

**Client:** National Highway Authority of India, PIU Chennai

**Contribution:** Inventory & pavement evaluation surveys, preparation of bill of quantities of highway items and rate analysis, preparation of schedules for tendering and report.
- **Detailed Engineering Design of Partial Cloverleaf Interchange to KIA Motors site at Ananthapur (Length -5 km), Andhra Pradesh.**

**Client:** APIIC, Government of Andhra Pradesh

**Contribution:** Geometric design of access roads, preparation of bill of quantities of highway items and rate analysis, preparation of LA drawings, tendering schedules preparation.
- **Detail design of four lanning of Kante to Waked section of NH-66, Maharashtra (Length-50 km)**

**Client:** MEP Infrastructure Developers Ltd JV with Sanjose Ltd, Mumbai

**Contribution:** Supervised and conducted field surveys, Geometric design of highways, detailed BOQ as per design, technical support for site execution team, preparation of various reports.

- **Detail design of Trunk roads E2, E4, N7 Package XI in Amaravati Capital city, Andhra Pradesh-(Length-33 km)**

**Client:** L&T Transportation Infrastructure Ltd, Chennai

**Contribution:** Geometric design of trunk roads and major junctions, detailed estimate as per design, signs & markings, coordination with L&T WET IC on utility drawings.

**GRADUATE ENGINEERING TRAINEE**

**SEP 2015-SEP 2016**

- **Detail Project Report for selected roads in the Chittoor, Kadappa, and Anantapur districts in the state of Andra Pradesh (Total Length -347 km)**

**Client:** Andhra Pradesh Road Development Corporation, Hyderabad

**Contribution:** Conducted field surveys, preparation of bill of quantities of highway items & project facilities, preparation of rate analysis and reports.

- **Pre-Tender engineering services for four lanning of Lucknow to Sultanpur section in the state of Uttar Pradesh (Length-127 km) & Kishangarh-Udaipur-Ahmedabad highway project (Package VI and VII) in the state of Rajasthan (Length-94 km)**

**Client:** L&T Infrastructure Development Projects Ltd, Chennai

**Contribution:** Preparation of bill of quantities of highway components and project facilities, preparation of rate analysis and reports preparation.