

Mr. R.RAJASEKAR

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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	M.E-Transportation Engineering (2021)	College of Engineering, Guindy.	Anna University	9.13
2	B.E-Civil Engineering (2015)	Dr. Mahalingam College of Engineering and Technology, Pollachi	Anna University	8.76

Employment Details

From	To	Name of the Organisation	Positions Held
Dec 2025	Present	University College of Engineering BIT campus Tiruchirappalli, Anna University	Assistant Professor Department of Civil Engineering
July 2025	Dec 2025	WSP Consultants India Private Limited, Bengaluru	Senior Engineer-GCC UK Roads
Dec 2022	July 2025		Engineer-GCC UK Roads
July 2021	Dec 2022	L&T Infrastructure Engineering Limited, Chennai	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

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 (IIT-Madras)
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
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➤ **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
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- **Detail Project Report for selected roads in the Chittoor, Kadappa, and Anantapur districts in the state of Andhra 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.