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| **Contacts:**  [**Email:**](mailto:%20Email:%20shaj.71@gmail.com)  [**shaji.380241@2freemail.com**](mailto:shaji.380241@2freemail.com) |
| **Qualifications:**  **Bachelor of Technology** Degree in Civil Engineering in March 1994  **Date of Birth:**  10th May, 1971 |
| **Professional Credentials:** |
| Chartered Engineer (India)  Member of The Institution of Engineers (India)  Member of All India Management Association  **Approval of Abu Dhabi & Western Region Municipalities** |
| **Nationality:**  Indian |
| **Country experience:**  India, United Arab Emirates |
| **Languages:**  English, Malayalam, Hindi |
| **Driving License:**  UAE, India |
| Computer related skills:  MX Road, AutoCAD,  **Microstation, Autoturn**  **and MS Office** |
| **Availability:**  **ONE MONTH** |

**Shaji, B.Tech., MIE, C.Eng.**

**Senior Roadway / Highway Design Engineer**

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Career Objective:

To add value to the services of an eminent highway consultancy organization through sustained efforts as a key team member.

**Core Competencies:**

* Over Twenty years of experience mainly in Roads / Highway Design. Conversant with Dubai / Abu Dhabi Municipality Highway Design standards, Abu Dhabi Urban Planning Council and AASHTO/DMRB highway standards, Roads / Highway Geometric Design Strategy (using Dubai Manual, UPC, AASHTO, DMRB, KSA/Qatar Manual etc.) – horizontal geometric alignment & vertical profiles, road cross-sections, roundabouts, signalized intersections, U-turns, and grade separated intersections or interchanges (bridges and tunnels); on & off-street car parking; site grading using **MX Road in AutoCad and Microstation environments**.
* Design of urban/rural road networks, design of roadways and geometric design of parking structures / parking lots for shopping malls and other public facilities, road network development for housing complex developments and industrial areas.
* Design of vehicle tracking and swept path checking with Autoturn.
* Design of Traffic signs and road marking.
* Bill of Quantities (Quantities take off), specifications and tender/ contract documents.
* Review and checks of geometric design of Road projects at all design stages from conceptual stage to construction stage. Overview completeness, accuracy, standards compliance and quality.
* Transfers knowledge to other engineers in the design team and mentor them to develop their highway design capabilities.
* Performed various other responsibilities such as site management; general guidance to the supervisory staffs and technicians for the execution of the planned tasks as per design and relevant standards; measurement of quantities of works; certification of contractors running payment bills; design and review of technical submittals and working drawings; examination of works as per design, relevant standards and manufacturer’s recommendations to ensure the quality of works and contract conditions.

Career highlights

A Chartered Engineer who has more than Twenty years of working experience, among which more than Eighteen years as a Roads/Highways Design Engineer. Design work experience generally included design of at grade and grade separated intersections, roundabouts and access controlled highways through densely populated areas and design of parking areas. The design had several geometric challenges like maintaining adequate horizontal and vertical sight distances, tying the road profiles to existing junctions, maintaining the road below the threshold of buildings to facilitate drainage towards the road, maintaining adequate clearances to the obvert of underground services, tying vertically to the cover levels of existing manholes. Experienced in providing traffic signs, road markings and taking quantity take off with the details provided by the surveyors. Designed various roads and parking areas for the Kerala State Public Works Department, Dubai Roads and Transport Authority, Abu Dhabi Western Region Municipality, Abu Dhabi City Municipality, Musanada and Ministry Of Public Works, United Arab Emirates. Conversant with Dubai / Abu Dhabi Municipality Highway Design standards, Abu Dhabi Urban Street Manual and AASHTO highway standards, Roads / Highway geometric design strategy (using Abu Dhabi/UPC/Dubai Manuals, AASHTO, DMRB, etc.) – horizontal geometric alignment & vertical profiles, roundabouts, signalized intersections, u-turns, and grade separated intersections or interchanges; on & off-street car parking; site grading using MX Road in AutoCad and Microstation environments. Experienced in design of vehicle tracking and swept path checking with Autoturn software. Performed various other responsibilities such as site management; general guidance to the supervisory staffs and technicians for the execution of the planned tasks as per design and relevant standards; measurement of quantities of works; certification of contractors running payment bills; design and review of technical submittals and working drawings; examination of works as per design, relevant standards and manufacturer’s recommendations to ensure the quality of works and contract conditions.

Highly experienced in highway design using Bentley MX Road in AutoCAD & Microstation environments.

Detailed experience

1. December, 2012 – Present **Idroesse Infrastructure Middle East**

**Senior Roadway and Highway Design Engineer**  Abu Dhabi, UAE

Working with Idroesse Infrastructure Middle East for various projects for **Musanada and Ministry of Public Works, UAE**. The work includes the horizontal & vertical design of roads, intersections, roundabouts, interchanges including vertical grading, cross section details, quantification of earthworks and preparation of engineering design drawings, documents and reports from Feasibility study stage to construction stage.

* **The Development of South Shamkha Community:** The project area was 43 sq. km. (complete design development include reviewing, analyzing the master plan and implementing the recommended changes, environmental and traffic studies, and all roads network(80km 3X3 Dual Carriageways and 320km internal Roads), power supply, utilities, pumping stations and landscape designs). (Abu Dhabi, UAE; 6.75 Billion AED).
* **Design/development of Emirates Road:** Design/development of Emirates Road(3X3 Dual Carriageway)-the design of a 36km Freeway, its divided into three stages, stage-1 (from Falaj Al-Muallah to Al-Aqran), stage-2 (from Al Aqran to Al-Taween) and stage-3 (from Al-Taween to RAK ring road. the project also consist of full Cloverleaf interchange and three intermediate underpasses. (Umm Al Quwain, UAE; 373Million AED).
* **Maintenance & Development of Sharjah - Maliha Road:**The project consist of all design activities for maintenance, improvements and upgrading of existing road of 56 Km length, the design activities includes 14 intersections, 2 signalised junctions, 4 free flow interchanges & 8 underpasses. (Sharjah, UAE; 811 million AED).
* **UAQ Entrance Project:** Design/development of UAQ Entrance Interchange, 4 legs, a complete free flow, multi levels interchange, located at the intersection between Al Etihad road E-11 & Umm Al Quwain - Falaj Al Mualla road E-55 (UAQ, UAE; 180Million AED) (ongoing)

The responsibilities includes the horizontal & vertical design of all roads, intersections, roundabouts, interchanges including vertical grading, cross section details, quantification of earthworks and preparation of engineering design drawings, documents and reports from Feasibility study stage to construction stage.

* Manage all highway design aspects of projects to meet time, completeness, accuracy, standards compliance and quality requirements.
* Directing the other members of the project team, including Engineers & Cad Technicians. Knowledge transfer to junior engineers in the design section and mentor them to develop their engineering capabilities.
* Provide project support such as writing up reports, design criteria, reviewing and coordination of geometric approval drawings, plans, BOQ and estimates.
* Planning of assigned activities to satisfy the requirements of Quality Assurance guidelines, budget and project brief.
* Review completed engineering work.
* Design and design management of Highway projects design.
* Review engineering design drawings for constructability / consistency with design and construction specifications.
* Supervision of the preparation of project deliverables for the assigned sections of work.
* Checking project deliverables as delegated by the Project Director, including reports, specifications and studies.
* Providing technical advice to the Project Director.
* Interface with clients, other consultants and perform internal coordination with other disciplines (utilities, structures, architectures, landscape and construction sites)

1. April, 2011 – October,2012 **WS Atkins & Partners Overseas**

**Senior Design Engineer (Roads/Highways)**  Abu Dhabi, UAE

Worked with WS Atkins & Partners Overseas for the Improvement, Upgrading, Development & Maintenance of the Infrastructure Facilities & projects at Abu Dhabi Main Land (South) for the **Abu Dhabi Municipality.** The project includes study, evaluation, design and rehabilitation of existing roads, design of new sector roads inside the city and rural roads including access roads to farms/ plots, widening of existing roads and improvement / modification of existing intersections.

* **Consultancy Services for study, Evaluation, Design and Supervision of Road Maintenance & Rehabilitation works for internal roads– Abu Dhabi Mainland south:** Abu Dhabi Municipality has awarded the work to WS Atkins & Partners Overseas. The objective of these services is to study and evaluate, plan, design, and supervise the required maintenance and rehabilitation works of the existing road network including geometric and traffic improvements, access condition, and parking needs etc. for roads in Abu Dhabi Main Land – South. Detailed scope of work includes maintenance and improvement of the roads, parking areas and associated infrastructure for various existing main & sector roads, removal of existing pavement, sidewalks and curbs; construction of new roadway, parking areas, service reservations, sidewalks, paving, drainage, lighting, pavement marking and signing and other related construction, relocation, protection and construction of contingency ducts for existing and future utilities, all drainage works, all Street Lighting works and Construction of street furniture and appurtenances, as required.

Responsible for all design aspects pertaining to the construction, maintenance & rehabilitation works for internal roads, parking areas and the design co-ordination of multidisciplinary elements like irrigation, water, sewerage, storm water drainage networks and electrical/mechanical aspects.

1. October, 2009 – March,2011 **EUROESTUDIOS S.L.**

**Senior Civil Engineer (Roads/Highways Design)**  Abu Dhabi, UAE

Worked with Euroestudios S.L. for the Improvement, Upgrading, Development & Maintenance of the Infrastructure Facilities & projects at Madinat Zayed, Mirfa, Ghayathi, Liwa, Ruwais, Sila'a, and Delma in the Al Gharbia Region of **Abu Dhabi** for the **Western Region Municipality.** The project includes design and construction of highways connecting the cities, various sector roads inside the cities, rural roads including access roads to farms, widening of existing roads and improvement / modification of existing intersections including storm water drainage system.

* **Improvement, Upgrading, Development & Maintenance of the infrastructure Facilities & Projects:** for the Improvement, Upgrading, Development & Maintenance of the Infrastructure Facilities & projects at Madinat Zayed, Mirfa, Ghayathi, Liwa, Ruwais, Sila'a, and Delma in the Al Gharbia Region of Abu Dhabi for the Western Region Municipality. The project includes design and construction of roads connecting the cities, various sector roads inside and outside of the cities, rural roads including access roads to farms, widening of existing roads and improvement / modification of existing intersections.

Responsible for all geometrical design aspects pertaining to the construction of roads, parking areas and intersections in various road projects and maintenance of existing roads.

1. December, 2007 – August, 2009 **AECOM Middle East Limited**

**Highway Design Engineer**  Dubai, UAE

Involved in the Horizontal and vertical design of more than 500 km of roads including bridges and under passes. Designed more than 100 Nos of at grade & grade separated intersections and round abouts including grading of intersections, cross section details, quantification of earthworks and preparation of engineering design drawings and documents using Bentley MX software for projects like Dubai Industrial City, Dubai Studio City, Dubai Creek Crossings, Global Village, Al Khail Road, Roads in Oud al Muteena, Roads in Al Ghusais and various other road projects in Dubai and other emirates of UAE for **Roads and Transport Authority,** **Dubai** and for other private clients.

Responsible for all design aspects pertaining to the construction of roads and intersections in various road projects including:

* **Construction of Various Roads and highways in Dubai and other emirates of UAE:** Involved in the Horizontal and vertical design of more than 500 km of roads including bridges and under passes. Designed more than 100 numbers of at grade & grade separated intersections and roundabouts including grading of intersections, cross section details, quantification of earthworks and preparation of engineering design drawings and documents using Bentley MX software for the following projects for Roads and Transport Authority, Dubai and for other private clients.
* **Dubai Industrial City:** Design of road network and all infrastructure facilities for the development of an area of 10.00 km X 5.00 km.
* **Dubai Studio City:** Design of various roads and parking in the development area.
* **Global Village:** Design of various roads and parking in the development area.
* **Dubai land:** Design of road network including intersections and all infrastructure facilities for the development.
* **Dubai Creek Crossings for RTA, Dubai:** Design of a new bridge and approach roads for creek crossing.
* **Al Khail Road for RTA, Dubai:** Design of an expressway and various intersections.
* **Roads in Oud al Muteena for RTA, Dubai:** Design of new roads including all infrastructure facilities for a community.
* **Roads in Al Ghusais for RTA, Dubai:** Design of new roads including all infrastructure facilities.
* Various other road projects in Dubai, other emirates of UAE, Libya and Kingdom of Saudi Arabia:
* **Design of Multi-storey parking for City Centre at Mirdiff:** Designed parking for more than 7500 vehicles in 3 levels with easy traffic circulation.
* **Modification of circulation of Multi-storey parking of the** Dubai Mall: Reviewed and modified the circulation of parking in 11 levels for 15000 vehicles to ease parking and unparking maneuvers. Provided signage and driveway markings for the clear and easy search path and rapid exit route.
* **Design of Multi-level parking for Jewel of Creek Development:** Designed parking for more than 8500 vehicles in 7 levels with easy traffic circulation. Access facilities from the neighbouring roads were also designed.

1. February, 2001– December, 2007 **M/s. Reliance Consultants**

**Road/Highway Design Engineer** Kerala, India

As a Road/Highway Design Engineer of Reliance Consultants, India, responsible for all design aspects pertaining to the construction of various Roads, intersections, parking areas including

* **Construction of State Highway from Ch 0+000.00 to Ch: 148+000.00:** Design contract for 150 Km of highway through the middle of the state capital. This included construction of several at grade intersections. The project was funded by the Asian Development Bank and the client was the Kerala State Public Works Department. Several at grade and grade separated intersections were designed along the route. The design had to be reviewed & approved by the State Public Works Department and the technical committee of the Asian Development Bank. The design also included preparation of several alternate junctions arrangements best suit the traffic volumes together with a short term and long term implications due to the development. Preparing reports on access controls and providing alternative access routes where access is denied to the main road. Detailed design of all the junctions including grading design, obtaining approval from the State Public Works Department for the grading design of each and every junction along the route, providing traffic signs and road markings. Prepare cross sections of roads based on established right of way and services distributions. Design of profiles in MX and preparation of setting out drawing based on approved style sets. Preparing superelevation tables and design reports to be submitted to the State Public Works Department. Assist in preparation of bill of quantities and preparing cost estimate for the jobs.
* **Review of Design:** Reviewed the Design for 450 Km of highways and 850Km of rural roads connecting various cities and villages in the Kerala state. Assessing the existing geometry and improving the same within the right of way limits, designing of horizontal and vertical alignments, various road side amenities, working out the quantities by optimizing the cut/fill, preparation of bid documents and bill of quantities.

1. April, 1997 – January, 2001 **M/s. Creative Consultants**

**Site Design Engineer** Kerala, India

Construction of intersections and an underpass structure. Provide minimum obvert elevations for pressure lines, providing cover levels for the manholes. Prepare traffic signs and road marking drawings, prepare setting out plans for roadways. Quantity take of for preparing interim payments bills. Assist in project planning which was done in Microsoft Project.

* **Construction of intersections and underpass at Thiruvananthapuram:** Construction of intersections and an underpass structure. Provide minimum obvert elevations for pressure lines, providing cover levels for the manholes. Prepare traffic signs and road marking drawings; prepare setting out plans for roadways. Quantities take of for preparing interim payments bills. Assist in project planning which was done in Microsoft.

Responsible for design and preparation of working drawings for the project

1. June, 1994 – March, 1997 **M/s. Design Solutions** **Junior Engineer**  Kerala, India

* **Aakkulam Bridge, NH bye pass Thiruvananthapuram, Kerala:** Assist in design of multiple spanned bridge (7 span) with a total length of 400m across a lake. The design included a central navigation channel at the fourth span above the Maximum flood level. The bridge overpasses a rail crossing at the river edge. The work included preparing setting out drawings for the bridges and the abutments.

Responsible for preparing setting out drawings for approach roads, bridges and abutments.

Employment record

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| December, 2012 – Present  **Senior Roadway and Highway Design Engineer** | **Idroesse Infrastucture Middle East**  Abu Dhabi, UAE. |
| April, 2011 – October,2012  **Senior Design Engineer** | **WS Atkins & Partners Overseas**  Abu Dhabi, UAE. |
| October, 2009 – March, 2011  **Senior Civil Engineer**  **(Roads/Highways Design)** | **Euroestudios S.L.,**  Abu Dhabi, UAE. |
| December, 2007 – August 2009  **Highway Design Engineer** | **Aecom** Middle East Limited  Dubai, UAE |
| February, 2001 – December, 2007  **Road / Highway Design Engineer** | **Reliance** Consultants  Kerala, India |
| April, 1997 – January, 2001  **Site Design Engineer** | **Creative** Consultants  Kerala, India |
| June, 1994 – March, 1997  **Junior Engineer** | **Design** **Solutions**  Kerala, India |