

Niren Mehta BEng. MEng. (Civil), CEng MCIHT

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CIHT Membership no. **P000067179**

Engineering Council UK No. **671204**

CRPEP: **CAT B (will be upgraded to A)**

Professional summary

Chartered Engineer with 22 years of professional experience in Highway, drainage and infrastructure construction supervision and design. I have worked in both the private and public sector in UK, India and Bahrain. During my time at Ministry of Works in Bahrain, I served as Senior Civil Engineer overseeing a wide range of projects, from large motorway schemes to smaller access roads for development purpose.

Qualifications

CEng (Chartered Institute of Highway and Transportation, **CIHT UK**)

MEng (Highway and Transportation Engineering), M. S. University, Baroda, India

BEng (Civil Engineering), North Gujarat University, Patan, India

EBRD Road Safety Engineering E-learning Training Course

Professional Key Skills

- Project Manager
- Site in-charge / Engineer
- Highway construction and quality control
- Implementation of Health and safety policy on site
- Highway geometric design
- Design of Road Restraint systems
- Storm water drainage design
- 3D ground modeling
- Sign design, Road markings

IT Skills

Experience in using software packages such as AutoCAD, Auto Track, Microstation, GeoPack, 12D (Ground modelling software), RRRAP, MS-office, KeySIGN, Civil3D and Auto plotter (Civil Engineering software for Road projects). Also, undertook training for MS-Project, PMIS and Primavera software.

Employment record

April 2024 to **Bapco Energies (Air Fueling)**

Till date **Project Co-Ordinator**

As the Project Coordinator, my responsibility is to facilitate the replacement of the aging Jet Fuel line, which will be relocated to a new corridor passing through Bahrain's busiest road junction. This task involves negotiation with over 16 stakeholders, obtaining their approval, and effectively managing associated costs and time implications. It is crucial to ensure minimal disruption to traffic during this process. Additionally, I provide support for the tender process in appointing a consultant for the project.

June 2011 to **Ministry of Works, Bahrain**

Jan 2024 **Senior Civil Design Engineer / Civil Design Engineer**

As a Project Manager, I have successfully overseen various multimillion USD design project from concept to construction. My current responsibilities include reviewing the design and representing the approving authority and key decision-making team for a highway and infrastructure projects in Bahrain. I lead team within the organisation and liaise with stakeholders for the project entails a road improvement scheme with an estimated construction value of 1 billion USD.

In my capacity as a project coordinator, it is part of my duties to oversee planning permission and wayleave applications for various projects, involving all relevant stakeholders. Additionally, I am actively engaged in the practice of value engineering to attain constructive and sustainable solutions that align with the project objectives set by the Ministry. Also play important role for being part of Technical and financial bid evaluation for various projects. I have provided training and guidance to team members to uplift skill matrix of the organisation.

As a member of the Road Design, Supervision, and Audit Section, I made substantial contribution to the updating of the Bahrain Road Design Manual (BRDM 2019).

Also worked as acting **Head of Design projects supervision and audit group**.

April 2006 to Feb 2011 **Waterman Transport and Development (UK)-
Assistant Design Engineer**

Full review of the **M62 Managed Motorway scheme** that proposed introduction of DHS¹ and part time through junction running onto 8.25km of existing motorway in accordance with DMRB/IAN 111/112 and identify departures from standards / prepared justification to seek National Highways (formally known as Highways Agency) approval. Also undertook alignment design of three intersections to suit the scheme in accordance with DMRB standards.

Designed the major signal-controlled junction of A38 under Section 278 works and spine road including roundabout to the site under Section 38 works for **Castlewood Grange Industrial Estate, Nottinghamshire UK**. Also undertook 3D earthworks modelling which included creation of 13 development plots and circa 450,000 cum of cut and fill.

Review and alignment re-design of under-construction **ECI scheme of A606/A6003 Oakham Bypass, Rutland County Council** consist of a northern (1.7km) and southern (1.4km) section with estimated cost of £10.5M. I worked closely with the site team to provide vital design support to construction team. After designing various options and value engineering exercise, a balanced cut/fill was achieved to maintain project cost. Also, Undertook Sign design in accordance with TSRGD and Road Restraint System design using risk-based approach of RRRAP for entire project.

Worked on both the Master plan and the Phase 1 of **Steetley Colliery Redevelopment**. In order to create the site master plan. I undertook an earthworks modelling exercise using 12D software to create the building and external works plateau for the whole of the 85ha site along with highway design for the S278 Access Roundabout and design of the 800m main site spine road. The earthworks modelling for the 300,000cum of cut-fill involved creating an onsite cut fill balance as well as quantification of earthworks material types, including identifying and modelling the rock-head profile.

My involvement in **North West Leicestershire's East Midlands Strategic Rail Freight Interchange** project was in designing feasibility alignments for new highways, including grade-separated access on the A50/A453 link, as well as tram and rail routes to the site. The proposed building 1700x750m required producing an earthworks model to look at the feasibility of creating a large single level building plateau adjacent to East Midlands Airport. I created the 3D model using 12D Software and reviewed quantities for cut/fill for several feasibility options.

The planned mixed-use **Lindhurst development** creates 1700 houses and 26 ha of development land near Mansfield. The site slopes steeply and it was necessary to create an earthworks model to ensure the proposals could be accommodated on the site. I undertook the earthworks modelling and preliminary access road alignments for the scheme, which was submitted for planning in 2010.

Nov 2005 to March 2006 **Carillion Highway Maintenance Ltd - Avon and Somerset Tactical Information System (ASTIS), Aust,
Bristol, UK
Site Engineer**

As Site Engineer of Highway Agency (Now National Highways, UK) scheme comprising of the improvement of motorway M4

Construction supervision and successfully executed earth-retaining structures such as gabion baskets, soil nailing, reinforced earth structures and piling.

Duties includes –

- Carried out schedules, sequences, and assignment of work activities as per agreed construction program
- Issue 'Permit to dig'
- Implementation of health and safety policy
- Co-ordination with the sub-contractor and the overseeing organisation
- Interpret specifications and standards provided as part of contract documents
- Drawing review
- Conduct site checks and road observations according to a client and local policy
- Reporting project progress to Section Engineer

¹ DHS - Dynamic Hard Shoulder

March 2003 to Feb 2005 **Gherzi Eastern Ltd. (INDIA) and TCE Consulting Engineers Ltd, TATA Enterprise (INDIA)**
Civil Engineer – Construction supervision

ADB Funded Project **Gujarat Earthquake Rehabilitation and Reconstruction Project – Infrastructure Design and Supervision Consultants (IDSC): Package-I**

Construction supervision of various urban major / minor roads and junction for the that was to reconstruct and restore damaged infrastructure into earthquake affected towns such as Bhuj, Anjar, Mandvi and Dhangadra of Gujarat State, India.

Duties include –

- Drawing review
- Budget monitoring
- Resolving technical issues
- Co-ordinate with stakeholders
- Maintaining records
- Quality control certification for material and construction
- Prioritise construction activities as per agreed construction program
- Provide valuable inputs for contract disputes and contract variations
- Monitor contractor and sub- contractor's performance and bill certification
- Preparation of weekly and monthly progress report for client
- Implementation of health and safety policy on site

March 2002 to Feb 2003 **Ideal Road Builders Pvt Ltd and R.K. Construction (INDIA)**
Site Engineer

Construction supervision for **State Highway (SH-5)** (35km) and **National Highway (NH-8)** projects (67km) – Highway and drainage construction

Duties includes –

- Responsible for review of the shop drawings and schedule before commencement of the project in accordance with the sequence of construction
- RFI application / approval from supervising consultant for construction
- Managing junior engineer and supervisors for various sites
- Preparation of site
- Setting out
- Unloading construction material, sorting and categorizing
- Quality control checks and maintaining records for the same on site

Papers and External to Work

Oct 2008 **IHT - The Midland Branch Paper Competition:**
Paper presented to Nottingham University, UK - IHT event on "Road development in India"

May 2009 to June 2011 **Volunteering work - STEM Ambassador:**
Actively involved in STEM activities to help future generation at various study locations

Feb 2010 **ICE Communication Competition 2010**
Paper presented at Loughborough University, UK on 'Bickerton town center – Bike for Business'

Aug 2014 to June 2019 **Member of Toastmaster International**
Completed Competent Communicator, served as Club President and various other roles