EDUCATION/QUALIFICATIONS

B.Tech Civil Engineering, NIT Calicut, India (2010-14)
MS by Research in Structural Engg., IIT Madras, India (2014-17)

LANGUAGES

English - Fluent
Malayalam - Fluent

COMPUTER SKILLS

MIDAS Civil, Staad Pro, ABAQUS, AutoCAD

MS Office Suite-MS Word, Excel, PowerPoint, Access, Outlook, Visio, and MS Project.

OTHER

- Joined Jacobs India (Hyderabad) on 2nd Jan 2018.
- Working in Dubai since June 24-June-2018
- Nationality: Indian

Name

THARUN JOHN JOSEPH

Structural Engineer with over 3 years of research experience (as part of MS Thesis), and over 4 years as Bridge Engineer in Jacobs. Research experience is primarily in the analysis & design of steel structures subject to earthquake and wind loading, with special emphasis to column-base connections. Design experience in Jacobs include substructure & superstructure design of steel & concrete bridges and design delivery/review of rail projects in the Middle East. Currently based in Abu Dhabi as Deputy Lead Engineer for Etihad Rail Project, responsible for reviewing and approving the contractor's design and overall supervision of construction activities across Package 2B.

Areas of Expertise:

- Finite Element Analysis of steel and concrete structures
- Design and detailing of steel structures
- Earthquake resistant design of structures
- Design of concrete sub-structures for bridges
- Design of steel orthotropic box bridges
- Design delivery and review of rail projects
- Construction Supervision

Relevant Project Experience:

- **Deputy Lead Engineer, Etihad Rail Project-Package 2B, UAE (Feb 2020 - present)**

  The scope includes review of contractor's design and supervising construction of Etihad Rail Package 2B.

  Responsibilities:

  - Managing contractor's design submissions and review.
  - Coordination of specialist design review teams across multiple Jacobs offices.
  - Lead daily war room sessions and weekly meetings to resolve Design, NOC and Construction related issues.
  - Liaising with contractor, designer, client and other stakeholders to resolve issues and obtain approval and NOCs.
  - Resolving Queries and Change Requests from Site as part of construction supervision.

- **Preliminary Engineering of Etihad Rail Project (Stage 2 & 3), UAE (Jun 2018 – Jan 2020)**

  The scope includes preliminary engineering works of 650kms of rail network and associated structures spanning across UAE.

  Responsibilities:

  - Design Development and Delivery Etihad Rail (Stage 2 & 3) – Development of design and coordination between stakeholders and design teams (Rail, Highways, Bridges, Utilities, Drainage, Geotech, EIA) to achieve a compliant design.

Name

THARUN JOHN JOSEPH

- Preparation of Tender Documents (All Disciplines) for all packages of Etihad Rail Stage 2.
- Stakeholder coordination to obtain approval & design NOC.
- Land Acquisition-Reporting and managing land acquisition across all Emirates for the client, coordination between stakeholders and design teams.
- Coordination of sub-contractors for site investigations-GI Works, Topographical Survey and Environmental Impact Assessment.

- **Design of Steel Orthotropic Box Girder Pedestrian Bridge (Dubai Pedestrian Bridge), Dubai (Jan-Apr 2019)**

  The scope includes detailed design of 76m Steel Orthotropic Box Girder bridge for pedestrian crossing in Dubai Marina.

  Responsibilities:

  - Analysis (Midas Civil) and Design of superstructure.
  - Development of design sheets for optimised design of superstructure based on AASHTO LRFD.
  - 3D plate modelling of the bridge to study the behaviour and force flow (due to the complex geometry of the bridge, to meet the Client's aesthetic requirements).

- **Design of various structures for Route 2020 Metro Rail, Dubai (Apr-May 2018)**

  The scope includes detailed design of 15kms of metro rail and associated structures for Expo 2020, Dubai.

  Responsibilities:

  - Design of steel structures for MEP building primarily against wind and sandstorms.
  - Design of cut-and-cover structures (RC) for underground sections of the metro.

- **Design of Substructure for Bunya Sea Bridge, Abu Dhabi (Feb-Mar 2018)**

  The scope includes detailed design of 2 Road bridges and 1 LRT Bridge in Abu Dhabi. All three bridges are made up of concrete decks supported on PSC I-girders of spans around 40-60m each.

  Responsibilities:

  - Analysis and Design of Piers, Pier Cap and Piles. The structure was modelled and analysed using MIDAS Civil and designed using in-house design sheets.

- **Design of Substructure for Jazan Heavy Haul Bridge, Saudi Arabia (Jan-Feb 2018)**

  The scope includes detailed design 6-span, 150 m Road Bridge designed for Heavy Haul and HL 93 Loading as per AASHTO for the proposed Saudi Aramco Power plant.

  Responsibilities:

  - Analysis and Design of Piers, Pier Cap and Piles. The structure was modelled and analysed using MIDAS Civil and designed using in-house design sheets.