** Mohamed**

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**Structural Engineer – PROJECTS**

A qualified professional with 4 years of experience in India & Qatar offering expertise in structural engineering deliveries for Structural Steel design of Industrial building (Boiler Power Plants), Analysis & Design of Steel Telecommunication Guyed, Self-Supported and Monopole towers using various Indian, American and Canadian standards, Reinforced Concrete Design of Residential Buildings and analysis & design of aluminium and glass structures for façades in buildings using British & Euro Standards. Proficient in analysis and design software’s and coordinating the detailing team to produce the final shop drawings.

**Objective:**Looking for career opportunities in structural engineering in handling analysis and design of concrete buildings or steel industrial buildings/structures.

**AREA OF EXPERTISE**

***Analysis of Concrete and Steel Structures │Design of Concrete and Steel Structures regarding various standards │ Coordinating the detailing team to produce fabrication drawings │ Stability and Strength check for the existing structures│Analysis and design of various foundation for the structures***

**EXPERIENCE SUMMARY**

**Trikaal Tech Enterprises Pvt. Ltd., Chennai, India.**

***Structural Engineer (From August 2013 to November 2015)***

**Project: 20MW Boiler Power Plant Project**

**Analysis and Design of Concrete and Steel Structures,**

**Detailing using Revit Structure based on American and Philippine Standards**

**Nature of Jobs:**

* Analysis of the plant by various load combinations using Staad Pro
* Design of the structural members and connections by using Robot Structural Analysis Professional
* Codes like NSCP C101-10, IS 800:2007 used for load combinations and design of connections
* Preparation of BOQ from Robot Structural Analysis Professional for comparison with manual calculation
* Guiding the detailing of structural members and connections according to AISC standards by using Revit Structure

**Project: 30.5m H-frame Guyed Steel Tower**

**Analysis and Design of Steel tower with foundation**

**Analysis using Guymaster Software and design by manually based on Canadian standard**

**Project: 160m Self-Supported Steel Tower**

**Analysis and Design of Steel tower with foundation**

**Analysis using Guymaster Software and design by manually based on Canadian standard**

**Project: 63m Monopole Tower**

**Analysis and Design of Pole tower with foundation**

**Analysis using tnx Towers Software and design by manually based on American standard**

**Nature of Jobs:**

* Analysis of steel tower with various loading combinations using Guymaster &tnx Towers
* Design of the structural members by manually using standards
* Analysis and Design of Caisson, Guy Anchor foundations& Pile foundations
* Codes like CSA S37-01, CSA S16-09, TIA-222-G, AISC 360-05 and ACI 318-13 used for wind loading conditions, design of connections and foundations
* Preparation of BOQ for the structural members using tnx Towers& manually
* Guiding the detailing of structural members and connections according to CSA& AISC standards by using Auto Cad

**Project: 5-storeyed R.C.C. Residential Building**

**Analysis and Design of 5-storeyed R.C.C. Residential Building**

**Analysis using Staad Pro software and design based on Indian Standards**

**Project: 3-storeyed R.C.C. Residential Building**

**Analysis and Design of 3-storeyed R.C.C. Residential Building**

**Analysis using Staad Pro software and design based on Indian Standards**

**Nature of Jobs:**

* Analysis of building with various loading combinations using Staad Pro.
* Design of the structural membersby using this software and foundation done manually
* Codes like IS 875, IS 456:2000 and SP 34 used for load combinations, design and detailing
* Preparation of BOQ for the structural members were done manually
* Guiding the detailing of structural members and connections according to Indian standards by using Auto Cad

**Qatar Technical Aluminium Co., Doha, Qatar.**

***Structural Engineer (From December 2015 to April 2016)***

**Project: Façade WorkIn Commercial Building**

**Analysis and Design of glass, glass fins, aluminium, steel and stainless steel connections**

**Analysis using FEA software of Autodesk Simulation and design by manually based on British standards**

**Nature of Jobs:**

* Analysis & design of glass and glass fins manually by British glass standards
* Analysis & design of aluminium and steel member manually based on BS 8118
* Analysis of steel and stainless brackets for the glass using Simulation software
* Codes like BS 5950:2000, British glass manual, SCI PP21 (Stainless Steel Code)
* Connection design for the brackets done by manually and design of anchors done by using Hilti software
* Guiding the detailing of glass with the connections according to British standards by using Auto Cad

**Insha Contracting & TradingCo. W.L.L., Doha, Qatar.**

***Structural Engineer (From May 2016 to July 2017)***

**Project: 10-storeyed Apartment Complex (Built-up Area - 71358.1 m2)**

**Analysis and Design of 5-storeyed Apartment Complex**

**Analysis using Robot Structural Analysis Professional software and design based on British Standards**

**Project: 8-storeyed Residential Apartment Complexes & Villas (Built-up Area - 85701 m2)**

**Analysis and Design of 3-storeyed Residential Apartment Complexes& Villas**

**Analysis using Robot Structural Analysis Professional software and design based on British Standards**

**Project: 5-storeyed R.C.C. Show Room Buildings (Built-up Area - 32907.2 m2)**

**Analysis and Design of 2-storeyed R.C.C. Show Room Building**

**Analysis using Robot Structural Analysis Professional software and design based on British Standards**

**Nature of Jobs:**

* Analysis of building with various loading combinations using RSAP.
* Design of the structural members and foundation done manually
* Codes like BS 8110, BS 8004were used for load combinations, design and detailing
* Preparation of BOQ for the structural members were done manually
* Guiding the detailing of structural members and connections according to British standards by using Auto Cad
* Coordination with design & supervision consultants to get the approvals of designs & drawings
* Check / review Contractor's shop drawings for all structural works, including coordination with all the electrical, mechanical, specialist disciplines and architectural requirements of the project and with all the regulatory requirements
* InformHead of Structures immediately if any serious incident occurs which could affect the safety, stability, serviceability or durability of the structure, adjacent structures, (or temporary structures), whether in the short or long term. If appropriate, instruct emergency procedures to avoid accidental damage
* Check, review all the civil and structural materials submittals, proposals, calculations and samples
* Implement the contract documents requirements, such as design drawings, specifications, Bill of Quantities, contract conditions, etc. on site

**EDUCATION AND TRAINING**

* **Master of Engineering in Structural Engineering** from Anna University, Chennai, India, 2013
* **Master of Business Administration in Project Management** from Alagappa University, Karaikkudi, India 2013
* **Bachelor of Engineering in Civil Engineering** from Anna University, Chennai, India, 2011

**PERSONAL DETAILS**

* **Date of Birth:**September 22, 1988**.**
* **Language Proficiency:**English, Tamil & Hindi
* **Software Proficiency:**Staad Pro, Robot Structural Analysis Professional, SAP 2000, Guymaster, tnx Towers, SAFE, Ansys, Autodesk Simulation, Hilti for Anchors, Auto Cad, MS Office
* **Standards Known:** Indian, American, British, Euro, Canadian and Philippine Codes for Steel, Concrete, Aluminium & Glass