

# Kamal Hussain

Structural Design Engineer, MSc Structures, MME Registered Engineer (UPDA),  
Graduate Member of ICE

**05+ Years** Professional Experience

Qatari Driving License Available

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Doha Qatar



## Profile:

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Civil Engineer with Masters in Structural Engineering and sufficient experience in design of RC Structures, Precast and Prestressed Concrete, Steel Structures, technical specifications, drawings, structural reports, checking and quality assurance review of design to ensure compliance with applicable codes and standards. Coordination with clients and multi-disciplinary team of architects, geotechnical, mechanical and electrical engineers, also with contractors to achieve successful and timely delivery of projects. Sound knowledge of Structural Engineering Software's and Structural Design Codes/Specifications.

## Educational Qualification

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- **MSc Civil Engineering (Structure)**  
University of Engineering & Technology Peshawar
- **BSc Civil Engineering**  
University of Engineering & Technology Peshawar  
**PEC Registration: Civil/39879**

## Work Experience

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1. **Position:** Structural Engineer  
**Company:** Redco International w.l.l. Qatar  
**Duration:** October 2017 – Till Date

### **Responsibilities:**

At *Redco International* I am involved in the Analysis and Design of Precast Prestressed structures, RC Structures and Steel Structures. My major responsibilities and projects are listed below;

- Planning of Structures in assistance with Architects.
- Modeling of structures in finite element software i.e. ETABS, SAP 2000, and STAAD Pro, and performing Static and Dynamic Analysis and Design based on standard codes such as ACI, Eurocode, QCS, BS Codes, AISC, IBC and UBC.
- Design of Foundations in CSI SAFE software, as well as manual designing using excel spreadsheets.
- Modelling and designing of prestressed beams, precast solid slabs and prestressed hollow core slabs in *Concise Beam* software, as well as manual designing using Excel Spreadsheets.
- Preparation of detailed design reports and design drawings.
- Preparing detailed shop drawings including cut and bend schedule for reinforcement and further coordination with production department and site team.

## **Projects:**

- 1. Floresta Garden Towers at The Pearl Qatar.** (Tower 104 and 105) (Status: On-going)  
First 21 Story Precast Concrete Building in Qatar; (G+3P+15 Floors+2PH)  
Scope of work: Design and Build of two towers consisting of precast elements (Columns, Beams, Hollow core slabs, Solid Slabs, Shear Walls and Staircases).
- 2. Bus Depots Projects (Site-22, 23 & 24)** (Status: On-going)  
Scope of work: Design and Construction of three Bus Depot (Al Rayan, Industrial Area, Lusail). Buildings included Precast Bearing Wall Structures, Beam-Column Frame Structures, Cast-in-place concrete structures, Steel Structures, and several external works.  
Major Buildings: Accommodation Buildings, Admin Building, Operations Building, Service Building, Indoor Recreation Building, Dining Building, Mosque, Workshop Building, Solar-Panels Bus Parking Sheds, Guard Houses, and substations
- 3. Development of Al Wukair Logistics Park (GWC)** (Status: On-going)  
Scope of work: Design and Construction of Warehouses for Gulf Contracting Company. Part of the warehouse required for the operations of FIFA 2022 World Cup. Warehouse buildings consist of Concrete Structures and Steel Structures.  
Major Buildings: Dry ventilated warehouses, Air Conditioned Warehouses, Chiller Freezer warehouses, Light-Industry Warehouses, Administration Building, Substations, CCTV Building, Services Building.
- 4. Integrated Families Housing in Al Wakra** (Status: On-going)  
5 Story Building; (G+4)  
Scope of work: Design, Construction, Completion and Maintenance of Integrated Families Housing in Al Wakra. Main structure design consists of precast elements (Beams, Hollow core slabs, Solid Slabs, Shear Walls and Staircases).
- 5. Health Isolation Complexes (Field Quarantine Hospital)-Plot 2, 3,4 ,6 & 7**  
Scope of work: Design, Construction, Completion and Maintenance of Health Isolation Complexes in Umm Salal & Al Gharafa. The establishment of the Isolation complexes in Umm Salal and other locations is considered as one of the most important lines of defense that enables the state to maintain public health, as it represents an integrated strategic approach to analyzing and managing risks in the public health and environmental risks sectors. Main structure design consists of precast elements (Beams, Hollow core slabs, Solid Slabs, Shear Walls and Staircases).
- 6. Al Khor Zoo**  
Scope of work: Design, Construction, Completion and Maintenance of Al Khor Zoo Renovation-I. Main structure design consists of precast elements (Beams, Hollow core slabs, Solid Slabs, Shear Walls and Staircases).
- 7. Education City Station-Green Line-Doha Metro Project**  
Scope of work: Construction, Completion and Maintenance of North and South Entrances of Education City Station. Analysis and design of different structures including steel works and concrete structure.
- 8. Extension and Modification of 12 Schools (Gulf Contracting)**  
Scope of work: Design and Build of full structure consisting of precast elements. (Columns, Beams, Hollow core slabs, Solid Slabs, Shear Walls, Lift core walls Staircases and Isolated Footings).

**9. New Central Market at Al Wakra (B+G+M+Roof)**

Scope of work: Design and Build of full structure consisting of precast elements. (Columns, Beams, Hollow core slabs, Solid Slabs, Shear Walls, Lift core walls Staircases and Isolated Footings).

**10. Meahseel Fresh Vegetable Market at Saliya (B+G+M+Roof)**

Scope of work: Design and Build of full structure consisting of precast elements. (Columns, Beams, Hollow core slabs, Solid Slabs, Shear Walls, Lift core walls Staircases and Isolated Footings).

**11. Al Bida Metro Substation and Multi-Story Carpark Building:**

Scope of work: Analysis and Designing of Precast Concrete Beams, Hollow core Slabs and Staircases.

**12. Boundary Wall Projects:**

Completed the Analysis and Design of Precast Boundary Walls for several projects throughout Qatar.

2. **Position:** Structural Engineer  
**Company:** Associate Consulting Engineers (ACE)  
**Project:** China Pak Economic Corridor (CPEC) Western Route (Hakla On "M-1" To D.I Khan Expressway Section-IV "Pindi Gheb to Tarap"), Pakistan  
**Duration:** Jun 2016 to Oct 2017

**Responsibilities:**

- Responsible and supervising all construction activities including bridges and all types of RCC structures, like Underpasses, culverts, drains, preparing work schedule for the site works, Supervision & Monitoring of Pilling and assuring the practices comply with the desired plan and design
- Inspection of steel and formwork before pouring of any structural element and insuring the preparation of concrete as per specified mix design.
- Establishing bar bending schedule of different RCC structures
- Responsible to give appropriate and effective solution for all site related structural issue.
- Preparation of different Working Methodologies for different works to be executed on site.

3. **Position:** Structural Engineer  
**Company:** Al-Ghurair Giga Group Pakistan (Pvt) Limited:  
**Project:** **Project: World Trade Center**, DHA Phase II, Islamabad Pakistan  
**Duration:** Jan 2015 to 30<sup>th</sup> May 2016

**Responsibilities**

- Planning all progress work.
- Calculation and Estimation of all construction materials resources and making of demand.
- To prepare the working schedule for all construction activities.
- To check and control the quality of finishing works in building
- Supervising, inspecting and implementing steel reinforcement, including cutting, bending and fixing according to drawing.
- Supervision and quantity estimation over different construction phase work.

## **ACEDMIC PROJECTS:**

### ➤ **Final Year B. Sc Civil Engineering Academic Project:** “Optimization of Raft Foundation”

#### **Summary:**

- The aim of this project is to design a Raft which is Safe, Economical and practically doable.
- The objective of this project is to reduce the number of trials and minimize the wastage of time in selection of suitable type of RAFT.
- In this project we developed a Bar chart for selection of suitable Raft Foundation.
- This project will help the designer in quick selection of Raft against the Bearing pressure.
- In this project we have used “CSI SAFE v12”, “CSI SAP2000” and “ETABS” software for modeling, analysis and designing of Mat foundation for comparison.

## **Computer Skills**

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Efficient in using software namely; CSI ETABS, CSI SAP2000, CSI SAFE, Staad Pro, Prokon, Autodesk Robot, AutoCAD, Concise Beam, Tekla Software's, Limcon, RCM ACI Builder, HILTI Profis, INDEX Calc, Primavera Project Planner, MS Project, Microsoft Office.