ShoyebAli

056 870 2278 | Email: shoyebalikhan@gmail.com

Experience: 9 Years, Graduate Membership (ISTRUCTE), G+12Municipality License Holder for Buildings, Trakhees CED Approved Structural Engineer, Dubai.

Expertise: Structural Steel, Reinforced Concrete, Pre-stressed Concrete, Facade and Construction activity

PROFESSIONAL SUMMARY

Shoyeb Ali has been a Practicing Engineer since 2011. His professional interest and expertise is in the area of reinforced concrete, structural steel, seismic design and post- tensioned concrete. Having worked on mega projects with prestigious clients and contractors, he has gained terrific experience and developed into a rounded structural engineer with impeccable judgment and work ethics. He is a thorough professional and a team player of the highest degree.

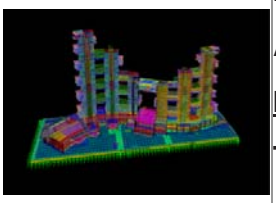
SKILLSET

- RAM STRUCTURAL SYSTEM
- ETABS
- CSI SAFE
- STAAD
- CSI SAP 2000
- SEISMIC DESIGN
- REVIT STRUCTURE
- REVIT ARCHITECTURE
- AUTODESK ROBOT
- STEEL-CONNECTIONS
- CONCRETE
- SHOP DRAWINGS
- NAVISWORKS
- COLD FORMED STEEL
- IDEA STATICA
- MATHCAD
- AISC LRFD
- ASCE 7
- RAM CONCEPT
- MIDAS DESIGN +
- PROKON
- MICROSOFT OFFICE
- ANSYS
- TEDDS
- RFEM AND RSTAB
- SOLIDWORKS
- CAD
- WIND DESIGN
- ACI 318
- TEKLA PRECAST
- PT DESIGN
- QUALITY TESTS
- STEEL BRIDGES
- RAM CONNECTION
- ACRYLIC DESIGN
- ALUMINIUM DESIGN

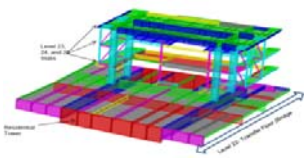
PRECAST	ASCE 7
CONCISE BEAM	IBC &UBC 97
STEEL SILOS	BIM
GFRC FACADE	CURTAIN WALL FACADE
THEMING BASED STRUCTURES	TENSILE STRUCTURES
FIT OUT INSPECTIONS	ROADS AND RAMPS
METHOD STATEMENTS	MATERIAL SUBMITTALS
FORM WORK DWGS	PILE FOUNDATIONS
TEMPORARY ENGINEERING	CONST.SEQUENCE
STRUCTURAL INSPECTIONS	LIFTING ANALYSIS
FACADE INSPECTIONS	LANDSCAPE DWGS

WORK HISTORY

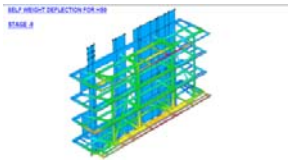
The Royal Atlantis resorts and residences.



Etabs Model -The Royal Atlantis.



Sky-bridge plate girders supporting three planted floors.



PROJECT SR STRUCTURAL ENGINEER-ARCHITECT OF RECORD *(10/2016to CURRENT)*

Dynamic Engineering Consultants | Dubai

Project Structural Engineer- The Royal Atlantis Resorts and Residences (B+LG+G+47- six towers), Palm Jumeirah (5.6billion AED).

Project description:

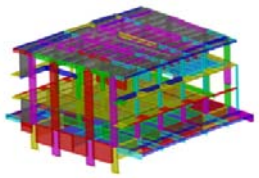
The Royal Atlantis resorts and residences is one of the most geometrically complex and prestigious projects in Dubai with breathtaking architecture which is designed to be the landmark of Palm Jumeirah comprising of hotel and residential units.

- The structurally complex project is a unique combination of concrete and structural steel comprising of outriggers, composite beams, composite-columns, Inter core connecting steel sky bridges, four-story steel cantilevers, lobby trusses, main link spanning between towers, canopies, cabanas, post-tensioned slabs, precast slabs.

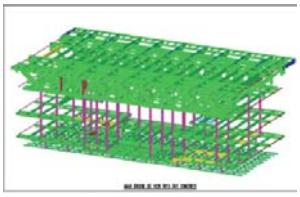
Duties-Structural Steel:

- Design verification of steel members such as steel coupling beams with T/C rods and shear studs.

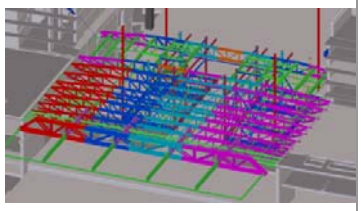
Four story cantilever connected to concrete columns and wall.



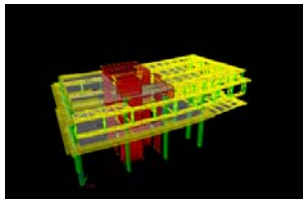
Sky-Court Structure connected to core walls.



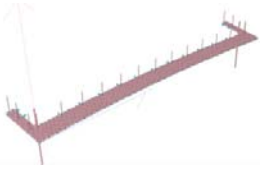
Main link bridge 50 m span connected between hotel and residential side at 100 m height.



Main entrance canopy trusses and Porte-cochere canopy.

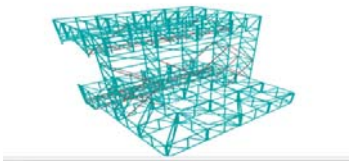


Observatory deck cantilever structure connected to core wall at 43-47 level.

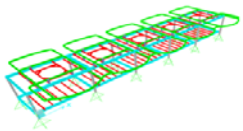


Thirty meter span Aluminum and steel metal canopy (one of many).

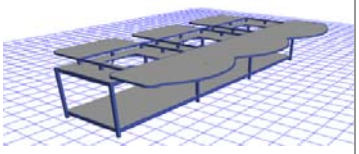
- Composite column design review which are used in the project to support tower footprint, Connection design reviews as per AISC LRFD standard and project specifications
- Design verification of multiple (#18) each different from other approx.17mspan steel cantilever structures of various configurations for strength, serviceability and vibration criteria for different load criteria and changes in geometry.
- Design verification of Main Link Bridge (1300MT) steel members.
- Design verification of main entrance canopy steel structure and end forces for design of connections.
- Design verify calculations of different configurations such as conference canopy, main ball room and junior ball room.
- Suggest appropriate camber and preset values to the contractor to control the deflection through request for information response.
- Review composite plate girders for ponding effects to check for ambiguous underestimation concrete weight.
- Verify all structures designed in the project for correct seismic design and wind loads as per UBC 97, ASCE 7 05 and project specification.
- Study the construction sequence analysis involving deck casting operations and erection of cantilever, sky bridge steel members and check deflection, service stresses at every stage.
- Review and comment on connection design submitted by steel specialist including shear connections, Moment connections, embed connections, node connections, truss connections, splice connections, brace connections, hanger connections and various types of typical and non-typical bolted and welded connections.
- Check shift in embed plates with respect to work point field change notice supporting calculations to ensure the connection is safe for additional stresses.
- Review of steel contractors shop drawings and to ensure



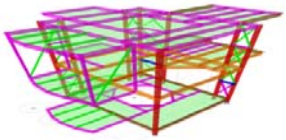
Temporary engineered structures for site feasibility(One of many).



Cabana steel structure 1

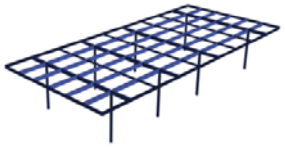


Cabana steel structure 2

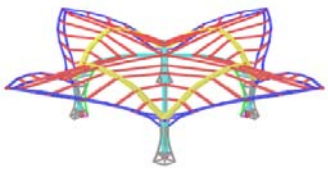


Cabana steel structure 3

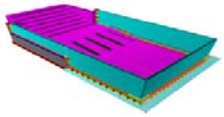
Typical Acrylic jelly fish tank Strengthened by structural steel. (One of many).



Food-Court Model



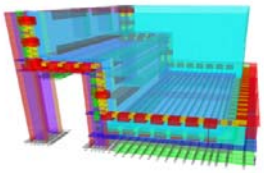
Lotus Canopy



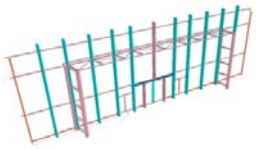
connection intent is in line with IFC drawings.

- Design review of structural steel ramps to facilitate trailer passing for logistic reasons.
- Verify acrylic fish tanks with structural steel to ascertain the strength and serviceability of the system.
- Design of lotus canopy members and its connections.
- Check for strengthening and retrofitting options for trusses, beams and plate girders for increase in loads.
- Monitor the extreme fiber stresses of the main link bridge for construction sequence analysis to facilitate non-shored construction.
- Analyze the sky bridges for erection sequence analysis.
- Design verify steel and aluminum metal canopies.
- Monitor the extreme fiber stresses and deflections during strand jacking and also monitor out of plane drifts of link bridge trusses prior to deck casting operations.
- Calculate stresses in link Bridge during the strand jacking operation.
- Check and comment on all erection analysis documents by steel specialist.
- Review and commentary on tower crane bracing design and its connections, placing boom support design.
- Respond to RFI'S raised by contractor and provide appropriate solutions.
- Respond to field change notices for erection related issues by conducting site visits and connection checks.
- Attend project meetings with contractor, steel specialist to enhance the project progress to achieve closure of issues.
- Design verification of permanent structural elements for all temporary loads during the course of the project.
- Design verification of steel cabanas of various configuration.
- Analyze and review all design calculations of various temporary access platforms of different configuration.
- Design verification of strengthening of GRP shoes for private

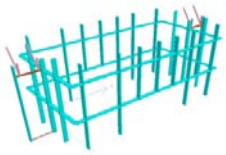
Grp-pool strengthened by structural steel to limit acrylic displacements (One of many).



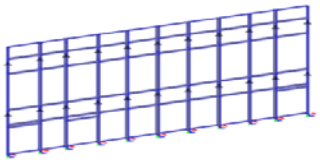
Plunge pool



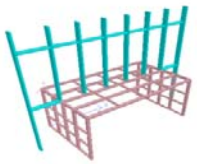
Curtain wall system-stick type with portal frame.



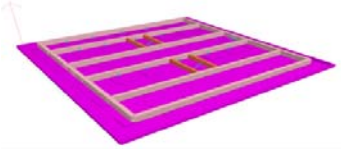
Curtain wall system-other modules.



Internal curtain wall



Stick curtain wall system with vestibule type.



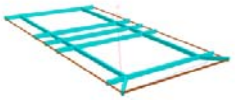
Glass fiber reinforced concrete (GFRC) soffit panel with flex anchors, seismic anchors and stud frames (one of many).

pools and plunge pools for to limit the rebate displacement and acrylic displacements.

- Review of steel collar frames connected to concrete columns to transfer the loads from tower crane ties and post fix connections to transfer the loads to the main structure.
- Check food court model member calculations and its connections in accordance with construction documents.
- Review of all secondary steel structures, abseil systems, monorails and access platform calculations.
- Verify handrail, balustrades calculations in accordance with project specification and relevant codes.

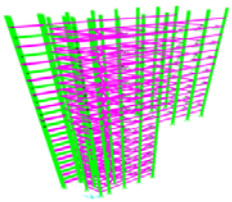
Duties-Façade:

- Design verification of the glazing system as per AS 1288 and ASTM E1300.
- Review of Aluminum framing works as per BS 8118 part-1 and Euro code 9.
- Review of specialist glazing consultant construction documents and raise queries and issues with the design.
- Knowledge in various types of glass in window applications.
- Design of glass using ASTME1300 load charts and finite element analysis.
- Expertise in structural steel connections as per BS 5950 and AISC LRFD.
- Review of punch window type void type screens and provide comments on calculations.
- Design of glass fin for buckling and its splice connections
- Check for thermal movement of facade systems and verify the slots provided in the shop drawings are in line with analysis model and also determine inter story drifts of curtain walls to ensure are within allowable limits of project specifications.
- Review of structural sealant/bite and mechanical fixings shown on shop drawings/calculations to ensure that they are in line with project specifications.
- Design check of vertical and horizontal joint design of curtain



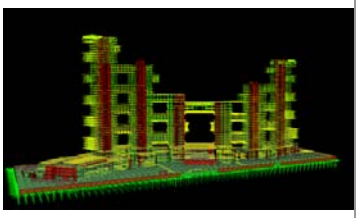
Sky-light system.

Louver Façade.

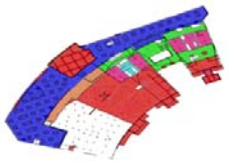


Stone cladding supporting cold-formed steel system

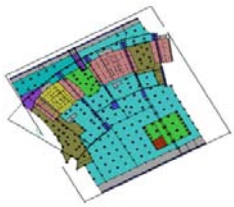
Steel Frames To Support Gfrc Façade.



ETABS wind model.



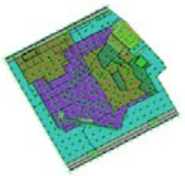
Podium part slab.



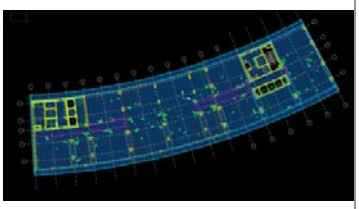
Lower ground part slab

wall systems.

- Review method statements and attend mockups to ensure air and water containment.
- Technically sound in design of free standing glass balustrades and barriers of various type as per BS 6180.
- Design review of aluminum metal canopies, glass canopies, screens, and pivot systems of various types.
- Thorough understanding of continuous stick curtain wall and unitized system.
- Good Understanding of semi unitized system, vestibules and point/spider glazing system.
- Review of façade elements structural glazing, skylights, suspended Glass, Aluminum cladding panels, sliding Windows & revolving doors.
- Review of various structural systems of fixed window and operable windows.
- Design review of Louver Facade, privacy screens, and giraffe frames for panel lifting.
- Design review of Glass fiber reinforced concrete panels and its supporting frame system.
- Verify stucco panels cement boards and its hanger supporting system.
- Device methods and provide options for the GFRC contractor to design Soffit and vertical panels of various type by the correct use of seismic anchors, flex anchors and stud frames.
- Design of Movable and folding wall steel supports and fin screens.
- Verify calculations Mechanical fixing system for stone cladding of various configurations such as omega brackets.
- Design of cold-formed steel sections to support stone cladding.
- Review calculations of stone soffit panels and honeycomb panels.
- Competent in European Technical Approval guidelines (ETAG)

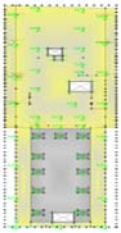


Ground floor part slab

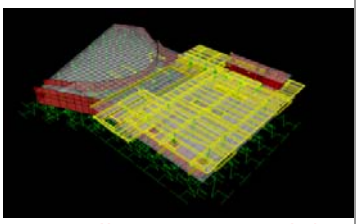


PT-slab model.

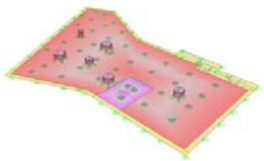
Robatayaki restaurant



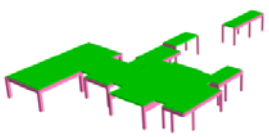
Robatayaki foundation



Mediterranean model



Mediterranean raft model



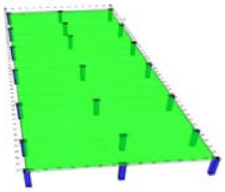
for Anchor approval status.

- Verify design calculations of theme based structures.
- Perform structural inspections of steel , aluminium structures including metal canopies, pergolas and facade structures.
- Review material submittals, method statements and Material delivery inspection requests.
- Perform fit out inspections and other fabrication stage inspections.
- Check the shop drawings and design calculations of tensile membrane and theme based structures

Duties-RC design and Pre-stressed concrete:

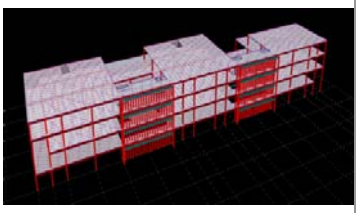
- Design verification of ETABS Model of the main structural system design and to ensure structural system is working and is compatible with IFC drawings.
- Verification of basement for all temporary loads and buoyancy analysis.
- Review all core-wall drifts and deflections of lateral force resisting system for wind and seismic loads before submission to authority.
- Ensure that design criteria is followed with correct loads and load combinations and design parameters.
- Design review of post tensioned slabs by the specialist contractor for strength, stresses, deflection and vibration.
- Review and respond to Request for information raised by contractor with regards to discrepancies and detailing queries.
- Involved in meetings to provide feasible solutions to site related issues which halt the work progress.
- Review and thorough verification of general arrangement drawings and rebar shop drawings submitted by the contractor to ensure its compatible with IFC and code detailing requirements.
- Check for in plane forcesand verify if lateral reinforcement in the slab is sufficient as per IFC drawings.
- Review concrete rebar drawings as per construction

Food court concrete structure.



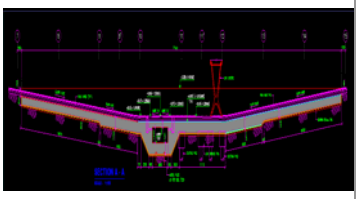
RMU Model.

Al-Jalila Children'sspecialtyHospital.

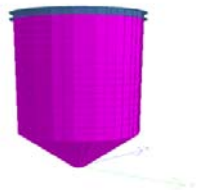


Ram structural system Model.(Part-Model)

Media center



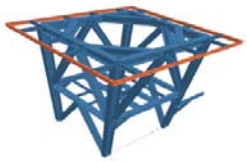
U-channel drainage and storm water tank



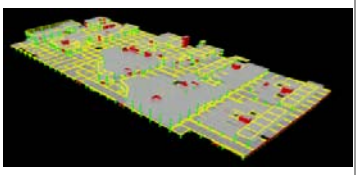
Silo model

documents and request for information responses.

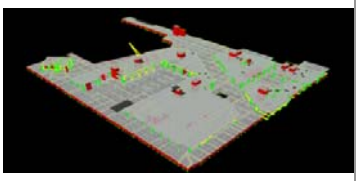
- Review of post tensioned concrete slabs for flexure, service stresses submitted by contractor and commenting on design and drawings.
- Review of landscape and water feature structural drawings in accordance with IFC.
- Resolve construction related issues such as rebar congestion, detailing of joints and ductile detailing of lateral force resisting elements.
- Design verification of Robatayaki structure and foundation (Mixed-concrete and steel structure) restaurant outside the tower footprint.
- Design verification of concrete elements such as flat slabs, beams and columns for temporary loads such as temporary steel towers, erection loads and moving loads.
- Check on retaining walls for surcharge traffic loads due to the passing of trailers.
- Check miscellaneous structures such as food court, RMU before submission to Trakhees.
- Design check on Mediterranean restaurant outside the tower footprint before submission to Authority.
- Checks on all the concrete columns and composite columns close to steel cantilevers for temporary bracing load transfer.
- Design verification of core walls, shear walls for loads during structural steel erection and strand jacking.
- Verify the construction Joint locations on the drawings and ensure a proper shear transfer and check shear friction calculations.
- Review of post tensioned concrete slabs for flexure, service stresses submitted by contractor and commenting on design and drawings.
- Design review of roads, ramps and tunnels occurring in the project.
- Analyzing the PT slabs for wet concrete and construction loads



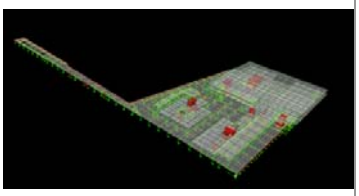
Silo supporting structure



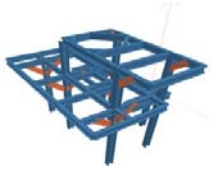
Avenue part-1



Avenue part-2

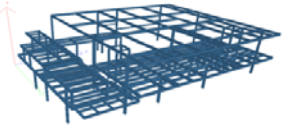


Avenue part-3

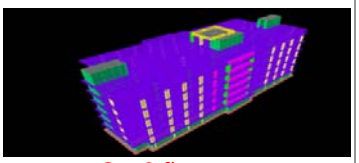


Level probe Maintenance platform.

AMTC-blower room.



G+mezzanine+2 floors.



G+ 6 floors

and performing construction sequence de-propping and re-propping analysis.

- Review of pre tensioned pre-cast slabs.
- Respond to field change notices by conducting appropriate site visits.
- Verification of structure for construction situations such as tower bracing connected to main structure, additional openings in the structure, additional loads and changes in structural system.
- Conduct time based site visits and issue design non-conformance reports if the work is found to be unsatisfactory.
- Carry out structural inspections of all concrete elements, formwork, slip-forms.
- Witness concrete tests and review reports to comply with project specification and ASTM standards/local regulatory authority.
- Review landscape drawings and perform inspections of the same to verify concrete up-stands to facilitate landscape constructions.

SR.STRUCTURAL ENGINEER *06/2014 to 10/2016*

International design consultants | Dubai

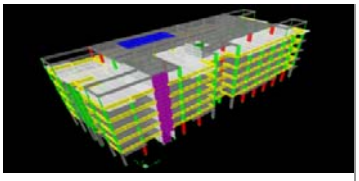
Projects:

Al-Jalila Children's Specialty hospital:(Raft+2 Basements+4 steel structure)

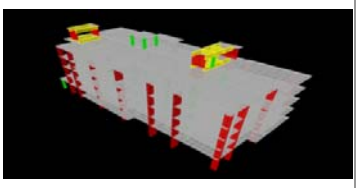
Project Description:

The Hospital is state of the Art Cancer Hospital intended for children in line with the vision of HH Sheikh Mohammed Bin Rashid Al Makhtoum, Ruler of Dubai. The Main Hospital building is of 2 basements, Ground, First, Second, Third and Technical levels of overall built-up area 85,000m2.

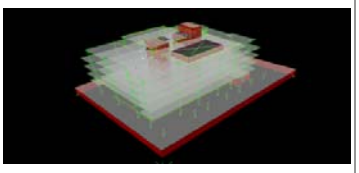
- Project is a composite structure comprising of composite beams and steel columns , secondary beams spaced at 1.2m c/c within plane bracing and vertical bracing to resist the lateral loads
- Employed by contractor for design verification of frames, composite beams and bracing in RAM Structural system for



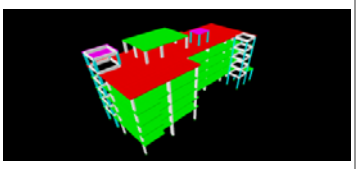
G+ 4 floors



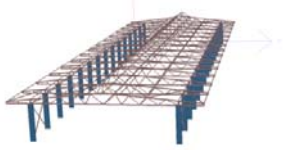
G+ 4 floors



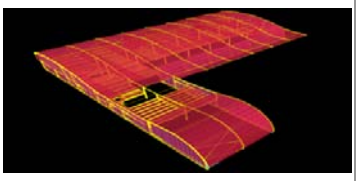
G+ 4 floors



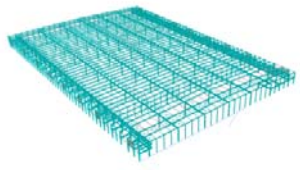
G+ 4 floors.



Dubai world stables horse barn trusses.



DWCVIP terminal.



Aramex warehouse 250 min length(Peer review).

strength and serviceability.

- Member's verification report submitted to consultant for approval and involved in discussions to sort out failures and other issues.
- Providing engineering support to contractor by doing calculations related to issues of alternate design, erection issues and other miscellaneous calculations.
- Provide end forces for the steel contractor to design connections.
- Media center modified design.
- Design of 100m span RC underground U-Channel and storm water tank for Vehicular Movement and the structure is checked for flotation which is resisted by providing tension piles.

Emirates Aluminum Steel Structure for Silos:

- Verify existing Silos for changes in loading.
- Design of Supporting Steel structures for steel silos in EMAL.
- Design of Inter-silo connecting platforms and maintenance Platforms
- Design of steel connections of all the platforms and supporting steel structures by BS 5950.

Avenue Mall phase-II Design verification:

- Employed by the contractor to verify the IFC design Package of substructure, the complex structure was modeled in ETABS from scratch and the design of piled raft foundation was verified.
- The Model was split into three parts because of its size and complexity
- The structure was verified for flexure, punching shear and crack width requirements and a report was submitted to the contractor.

City Walk phase-II Design verification of concrete rooftop:

- Employed by Contractor to verify the design and provide undertaking certificate for additional loads violating the loading plans for the structure.
- Recommendations and suggestions were incorporated in the report for the retrofitting of structural slab.

MBC Steel Building G+Mezzanine+2 Floors:

- This major TV Studio required a steel structure to house and run broadcasting services.
- Coordinating with existing Site condition and as built drawings to prepare proper framing and foundations.
- Design of steel/composite members.
- Provide End forces for the contractor to design connections.

Dubai World stables - Horse barn Trusses and office building:

- Concept design and Engineer of record for HH Sheikh Mohammed's horse barn.
- Verify steel structure design from the contractor and steel connections.
- Design of G+3 building with hollow core slab system.

AMTC-Blower room-EMAL

- Design of oil and gas platform structure in EMAL.
- Level probe maintenance platform design and connections.
- Structure made of structural steel was designed in STAAD.
- Connection forces were provided to the contractor to design joints.

Design of concrete structures:

- Design of G+6 concrete residential structure in Dubai.
- Design of G+4 multiple concrete residential structures in the emirate of Dubai.

Peer Reviews:

- 13211kV Substation on Plot SS3
- Aramex DLC Expansion on Plot WF-06in DWC.
- Workshop & Office on Plot WB14 & WB15in DWC.
- Proposed Landmark (RDC) Warehouse on Plot WT-02in DWC.
- Proposed IKEA Warehouse in DWC.
- Proposed Warehouse and Office (G+M) on Plot FB-134 in DWC.
- Warehouse & Office (G+M) on plot WA-36, WA-37 & WA-38in DWC.
- WB35 & WB36 Caliper Warehouse Extension in DWC.

- IDC145 Air Freight Facility WH & Office (G+M) Plot FA44-45in DWC.
- Design verification of DWC VIP terminal for changes in configuration
  in DWC.
- Proposed Landmark (RDC) Warehouse on Plot WT-02in DWC.
- Proposed Warehouse on plot no WB 27 & WB 28in DWC.
- IDC133 Warehouse & Office (G+M) on Plot WF01 & WF02 in DWC.

STRUCTURAL ENGINEER *06/2012 to 06/2014*

Edge Engineering Consulting solutions | India

- Design of Ribbed slab (Hordi Slab), Solid slabs, flat slabs
- Design of Superstructure
- Design of sub structure (foundation type includes Isolated , strap, strip, combined ,Raft and pile caps)
- Design of Steel frames including warehouses , platforms and buildings
- Detailing of Steel and RCC structural elements as per relevant code provisions.

PROJECT ENGINEER *06/2011 to 06/2012*

Belhasa Engineering & Contracting Company L.L.C. | Dubai, Dubai

Job description:

Employed by the firm as an intern and young project Engineer whose responsibility was to do coordination of Project with various trades. As a young Engineer I was in-charge of the following activities:

- Prepare a coordinated set of GA drawings in Liaison with Draftsman for Consultant Approval.
- Raising RFI with regards to discrepancies and queries in IFC.
- Coordinate with the site team to deliver the shop drawings approved on time.
- Check detailing in rebar drawings to ensure its inline with IFC and code requirements.
- Provide site supporting calculations as and when required.
- Maintaining a steady relationship with consultant for closure of issues.

EDUCATION

Bachelors in Engineering | Civil Engineering06/*2011*
Osmania University, India.

REFERENCES

Khazi Altaf- General Manager-Belhasa Contracting Company
Khazi Fiaz- Managing director-Euro systems Facades
Asad Bin Mohammed-Lead Structural Engineer, The Royal Atlantis Resorts And Residences.

CERTIFICATIONS

- Trakhees Accreditation Program Grey code –Structural design
- Dubai Municipality Approved for G+12 for concrete buildings.
- Graduate Membership-(ISTRUCTE)
- License holder of Trakhees Accreditation program Orange code - fresh concrete.
- License holder of Trakhees Accreditation program -Green code.