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Summary

Dynamic and skilled Structural BIM Engineer with +3 years of experience in the construction industry. Proficient in utilizing Building Information Modeling (BIM) software to create detailed models, analyze structural systems, and collaborate with architects and construction teams. Demonstrated ability to deliver high-quality structural designs that meet project requirements and regulations.

Work Experiences

STRUCTURAL BIM ENGINEER

May 2023 – Present

Company

Bawadi international engineering

PROJECTS :-

- ❖ VILLAGE BOUTIQUE HOTEL.
- ❖ RED PALACE.
- ❖ KING ABDULLAH FINANCIAL DISTRICT.
- ❖ WADI SAFAR ROYAL DIRIYAH GOLF CLUB.

Responsibilities:

- Create detailed BIM shop drawings for various construction projects, including commercial and residential buildings.
- Conduct clash detection and resolution to address conflicts during the design phase.
- Collaborated with architects and other engineers to develop detailed 3D models of structural systems using BIM software.
- Conducted structural analysis and simulations to ensure compliance with building codes and standards.
- Prepared drawings and specifications for construction documentation and coordinated with project managers to meet deadlines.
- Acted as a key point of contact for contractors and construction teams during the building process, providing technical support and guidance.
- Successfully completed projects ranging from residential buildings to commercial complexes, ensuring structural integrity and cost-effectiveness.
- Implemented BIM coordination processes that improved collaboration among project stakeholders and reduced design conflicts.
- Attained a high level of client satisfaction through clear communication, proactive problem-solving, and on-time project delivery.
- Conducted quantity take-offs and prepared accurate material lists for construction teams.
- Contributed to the creation of construction drawings and participated in model coordination meetings.
- Designed and modeled a multi-story residential building using BIM software, ensuring structural integrity and efficiency.
- - Train junior team members on BIM software and methodologies to enhance overall team performance.

SITE AND TECHNICAL OFFICE ENGINEER

January 2022 – April 2023.

Company

General Contracting&Gov Supplies

The New Dakahlia Security Directorate Project.

- Quantity Surveying From The Tender Drawings.
- Extracting The Shop Drawings (Concrete And RFT Drawings).
- Bill Of Quantities (B.O.Q) Take Off.
- Reviewing IFC Drawings.
- Providing Technical Advice And Solving Problems On Site.
- Reviewing & Adjusting Shop Drawings.

STRUCTURAL DESIGN ENGINEER

May 2020 – January 2021

Company

El Kafrawy Consulting Office at Mansoura.

- Worked Closely With Senior Structural Engineers In Conducting Structural Evaluations And Providing Design Assistance.
- Design Of Villas And Highrise Buildings And Extracting The Tender Drawings.

Courses

- Revit Structure Course.
- Bim Shop Drawings Course.
- Coordination Course.
- Dynamo Scripts Course.
- Professional Technical Office Engineer Course.
- Construction Course.
- Structural Design Course.

Computer and Soft Skills

- Proficient in BIM software such as Revit, AutoCAD, and Navisworks
- Proficient in Design software such as ETABS, SAP2000, and SAFE.
- Strong understanding of structural engineering principles and codes.
- Excellent communication and teamwork abilities
- Detail-oriented with a focus on accuracy and efficiency
- Dynamo Visual programming.
- AUTO CAD STRUCTURAL DETAILING (ASD).

Education

- University : Mansoura University. GPA: Very Good
- Graduation Year : 2020 Project : Foundations Project - Excellent Grade.

Languages

- Arabic Is The Native Language.
- English - Fluent

Certifications

CERTIFICATE OF COMPLETION

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Certificate No. EM303567097584145316735

MOHAMED HAGRASS
NAME

BIM SHOPDRAWINGS COURSE TITLE **REVIT 2024** PRODUCT

MOHAMED ELMASRI INSTRUCTOR **31-DECEMBER-2023** COURSE DATE **25-32 HOURS** COURSE DURATION

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MOHAMED HAGRASS
NAME

AUTODESK REVIT STRUCTURE COURSE TITLE **REVIT 2024** PRODUCT

MOHAMED ELMASRI INSTRUCTOR **31-DECEMBER-2023** COURSE DATE **41-100 HOURS** COURSE DURATION

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Certificate No. EM303567097584155316735

MOHAMED HAGRASS
NAME

BIM COORDINATION COURSE TITLE **NAVISOBJECTS MANAGE 2024** PRODUCT

MOHAMED ELMASRI INSTRUCTOR **31-DECEMBER-2023** COURSE DATE **9-16 HOURS** COURSE DURATION

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Reference Number: 0004

CERTIFICATE OF COMPLETION

BIM- Dynamo Intermediate (Level 2)- Project Based

Instructors **Ghasem Ariyani**

Mohammed Hagrass

Date **Dec. 8, 2023**
Length **9 total hours**