



About Me

An innovative Hardworking BIM Structural Engineer seeking an opportunity as a BIM Automation Developer in a challenging environment to develop Building Information Modeling solutions that tackle real-world problems in the AEC industry and automate the processes within the BIM project lifecycle.

📍 Cairo-Egypt



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Education

BA of Civil Engineering
Fayum University (2015 – 2020)
Strengthen Concrete

Computer Skills

software Knoweldge:

- Revit - Navisworks
- BIM360 - Civil3D
- Dynamo - Autocad
- Excel - Word
- SAP - Etabs

Programming Skills:

- HTML - CSS
- WPF - MVVM
- SAPAPI - LINQ
- JavaScript - Dynamo
- Python - C#
- OOP - RevitAPI
- NavisAPI - ETABSAPI

Personal Skills

Marwan Mostafa Abd El-tawab

BIM Specialist and BIM Software Developer

Work Experience:

■ BIM Software Developer/ BIM Specialist (ZFP zuhair Fayez Partnership Consultant) (May 2023 - Present)

- Enhance work productivity by Creating BIM plugins and Dynamo scripts
- Assist in improve template and create Families.
- coordinate Revit Models ,extract Clashes between disciplines and assign clashes to each discipline.
- check Model health and Validate Models according to NEOM standards

Technologies : RevitAPI, AutoCAD API, SQL, C#, LINQ, WPF, MVVM, NavisAPI, CSI API

Projects : MISK (Saudi Arabia) - Radiotherapy (saudi Arabia) - Oxgen(Neom Saudi Arabia) - Elforsan (TMG Saudi Arabia)

Addins :

- NeomReviewer (Revit): automate checking neom standards for revit Models
- NWCBatchExport (Revit): automate exporting multi nwcs form Revit files
- Align Walls to floors&Beams (Revit) : attach walls to nearest Floors and Beams
- PC for ground beam foundation (Revit) : auto create pc for ground beam
- Mechanical Equ Placer (Revit) : integrate excel with revit to place Mechanical Equipment to its Rooms
- NWF Update (Navisworks) : automate updating NWFs and transfer its to NWDs
- AutoClashSolver (Navisworks) : automate updating NWFs and transfer its to NWDs , clash tests , and auto change status for approved clashes
- import cad Files (Revit): auto import all cad files and assign it specific view at one;

■ BIM Automation Developer/ BIM Structure Specialist (HSE Alhussan Engineering Consultant) (Decm 2022 - May-2023)

- Enhance work productivity by Creating BIM plugins and Dynamo scripts
- Assist in improve structure template and create structure Families.
- coordinate Revit Models ,extract Clashes between disciplines and assign clashes to each discipline.
- support STR teams with revit issues

Technologies: RevitAPI, AutoCAD API, SQL, C#, LINQ, WPF, MVVM, NavisAPI, CSI API

Projects : CAP (saudi-arabia)

- Teamwork
- Problem Solving
- Time management

courses

- **UDEMY** REINF Shop drawings Using Dynamo BENAA Quantity Surveying Structure Design
- **UDEMY** zero to hero in css and html
- **UDEMY** zero to hero in javascript
- **IFC.js** crash course for creating BIM web application
- **Linked-in Learning**
 - BXP creation
 - Structure Families Creation
 - OOP design
 - BIM Fundamentals Intro to ISO19650
 - Time Management
 - Navisworks Clash Detection
 - BIM360 Essential

Languages:

- Arabic: Native
- English: Very Good

References

[Portfolio](#)

Addins :

- C&A AutoCreateDims (Revit): automate creating columns and Axis drawings
- Foundation AutoCreateDims (Revit): automate creating Dims for PC and RC foundations
- ClashNavigator (Revit): use clash report to isolate clashing elements in revit without using Id

■ BIM Automation Developer (Freelancing) (June 2022 - Decm 2022)

- Creating Revit and AutoCAD plugins using RevitAPI, AutocadAPI, NavisworksAPI, SAPAPI, and EtabsAPI.
- Research and development to automate tasks and improve productivity.

Technologies: RevitAPI, AutoCAD API, SQL, C#, LINQ, WPF, MVVM, NavisAPI, CSI API

Addins

- ECBimer : Bi-Directinal integration between Revit and Etabs/ sab analysis softwares

■ Civil Site Engineer (Fayoum University)

(New 6th of October City) (January 2022 - May 2022)

- Ensured project compliance with legal requirements, especially health and safety.
- Ensured projects ran smoothly and structures were completed within budget and on time.

Internship

■ BIM Automation Development Intensive Program (ITI)

- Aug 2022 - Nov 2022 BIM Developer : develop addins for automate BIM tasks in Revit and Naviswoeks

■ Structural BIM Diploma (KAITECH)

- Jan 2022 - June 2022 BIM Coordinator : using EIR to create BIM uses and create BXP - managing Bim360 account for all disciplines - create federated model for all disciplines and assign clashes for each disciplinary team - createing special required families for project create dynamo scripts to automate some tasks - create shopdrawings for concrete elements - create Lod350 / lod 500 for some elements according to BIMForum - createing COBie sheet for operation stage

■ Structural BIM Diploma (BIM solutions)

(Jan 2020 - June 2020) BIM Modeler create str Models and use navisworks report to solve clashes - create shopdrawings for concrete elements

■ Data Analyst Professional (UDACITY)

(Jan 2019 - June 2019) Data Analyst analyze data and extract kpis from it and transfer data to graphs to assist in decision making