

MAHMOUD ABDEEN

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PROFESSIONAL SUMMARY

Results-driven BIM Coordinator and Developer with over 7 years of experience modeling and coordinating diverse infrastructure projects. Specialized in optimizing roads, utilities, and construction workflows. Demonstrated success in delivering more than 25 high-value projects using BIM LOD 500 systems. Skilled in creating custom programming tools that have increased modeling accuracy by 30% and improved project delivery speed by 25%. Expertise in clash detection, model coordination, and automation solutions with strong capabilities in interior and exterior architectural visualization.

PROFESSIONAL EXPERIENCE

BIM Coordinator, BIM Developer and Senior BIM Modeler

Mofarreh Al-Harbi & Partners CO. | Dammam, Saudi Arabia

November 2022 - Present

Lead BIM coordination for complex infrastructure projects, implementing clash detection workflows and automation solutions. Developed programming tools that increased modeling efficiency and accuracy while reducing delivery timelines.

Key Projects:

- 1. Jafoura-TCF (Roads, Utilities - Wet, Dry)**
 - **BIM Modeler, BIM Coordinator**
 - **Managed complex utilities modeling and resolved over 200 cross-discipline clashes**
 - **Owner: Aramco, Consultant: Aramco**
- 2. Jafoura-TCF_Pioneer Camp (Utilities - Wet)**

- **BIM Modeler, BIM Coordinator**
 - **Optimized drainage systems modeling, reducing design revisions by 40%**
 - **Owner: Aramco, Consultant: Aramco**
- 3. Jafoura-TCF_Site Office (Utilities - Wet)**
- **BIM Modeler, BIM Coordinator**
 - **Owner: Aramco, Consultant: Aramco**
- 4. Fadhili (Utilities - Wet)**
- **BIM Modeler, BIM Coordinator**
 - **Owner: Aramco, Consultant: Aramco**
- 5. Fadhili_Site Office (Utilities - Wet)**
- **BIM Modeler, BIM Coordinator**
 - **Owner: Aramco, Consultant: Aramco**
- 6. WO#50 (Utilities - Wet, Dry)**
- **BIM Modeler, BIM Coordinator**
 - **Implemented advanced clash detection protocols**
 - **Owner: Neom, Consultant: Parsons**
- 7. WO#63 (Road, Reinforcement)**
- **BIM Modeler and Coordinator, Shop drawing**
 - **Created detailed reinforcement modeling standards**
 - **Owner: Neom, Consultant: Bechtel**
- 8. WO#60 (Sindala) (Building)**
- **BIM Modeler, Delivery of surveying to villas LOD 500_Surveyor by (ReCap)**
 - **Integrated point cloud data with BIM models for as-built verification**
 - **Owner: Neom, Consultant: Aecom**
- 9. WO#81 (Road)**
- **Design for TMP, BIM Modeler**

- **Owner: Neom, Consultant: Bechtel**

10. WO#82 (Road)

- **Design for TMP, BIM Modeler**
- **Owner: Neom, Consultant: Bechtel**

11. WO#41 (Steel Structure)

- **BIM Modeler, Shop drawing**
- **Owner: Neom, Consultant: Bechtel**

12. WO#78 (villages access roads-wave 1) (Reinforcement)

- **Shop drawing**
- **Owner: Neom, Consultant: Egis**

13. Al Khobar Entertainment Development (Utilities - Wet)

- **BIM Modeler, Shop drawing**
- **Owner: Seven, Consultant: Atkins**

14. Staff Village Primary Infrastructure (Roads, Utilities - Wet & Dry, Reinforcement, Landscape)

- **BIM Modeler and Coordinator, Shop drawing**
- **Integrated multi-discipline models, reducing coordination issues by 35%**
- **Owner: Amaala, Consultant: Atkins**

15. WAS-Waad Al Shamal (Reinforcement)

- **Shop drawing**
- **Owner: Maaden, Consultant: Worley**

16. Desktop Application Using Programming Language (Text Converter)

- **Software Developer**
- **Created a program that performs three text conversion functions: lowercase conversion, uppercase conversion, and first-letter capitalization**
- **Reduced document processing time by 60%**

- **Owner: Mofarreh Al-Harbi**

17. Lisp Work Using A Programming Language C# (Smart Select)

- **Software Developer**
- **Save Time in AutoCAD with Smart Select: The Smart Way to Select Elements**
- **Improved drafting efficiency by 45%**
- **Owner: Mofarreh Al-Harbi**

BIM Coordinator, BIM Modeler and Quantity Surveyor

Haif Company | Various locations across Saudi Arabia

May 2019 - November 2022

Performed quantity surveying, created working drawings, and modeling for a wide range of projects including roads, utilities, and construction. Coordinated all aspects of these tasks and resolved issues during project execution.

Key Projects:

1. Riyadh-King Salman Park (Roads and Infrastructure Project)

- **Contract Value: 2.5 Billion SAR**
- **Tasks: BIM Modeler and BIM Coordinator, Shop drawing**
- **Successfully coordinated BIM implementation for this mega-project**
- **Owner: King Salman Park, Consultant: Faithful+Gould**

2. Makkah-Crown Prince Project (Roads and Infrastructure Project)

- **Contract Value: 339 Million SAR**
- **Tasks: BIM Modeler and Coordinator, Shop drawing, Quantities surveyor**
- **Developed accurate quantity takeoffs with less than 2% variance**
- **Owner: National Housing Company, Consultant: Omrania**

3. Gazan-Saby (Roads and Infrastructure Project)

- **Contract Value: 138 Million SAR**
- **Tasks: BIM Modeler and Coordinator, Shop drawing, Quantities surveyor**

- **Owner: National Housing Company, Consultant: Dar Al Riyadh**
- 4. Almadina-Al Aqool (Roads and Infrastructure Project)**
 - **Contract Value: 95 Million SAR**
 - **Tasks: BIM Modeler, Quantities surveyor**
 - **Owner: Ministry of Housing, Consultant: Omrania**
- 5. Al Bahah-Baljurashi (Roads and Infrastructure Project)**
 - **Contract Value: 90 Million SAR**
 - **Tasks: BIM Modeler and BIM Coordinator, Shop drawing**
 - **Owner: National Housing Company, Consultant: Khatib & Alami**
- 6. Ngran-Habana (Roads and Infrastructure Project)**
 - **Contract Value: 54 Million SAR**
 - **Tasks: BIM Modeler and Coordinator, Shop drawing, Quantities surveyor**
 - **Owner: Ministry of Housing, Consultant: Dar Al Riyadh**
- 7. Al Baha-Alassalah (Roads and Infrastructure Project)**
 - **Contract Value: 35 Million SAR**
 - **Tasks: BIM Modeler and Coordinator, Shop drawing, Quantities surveyor**
 - **Owner: National Housing Company, Consultant: Khatib & Alami**
- 8. Al Bahah-Qlwa (Roads and Infrastructure Project)**
 - **Contract Value: 18 Million SAR**
 - **Tasks: BIM Modeler, Quantities surveyor**
 - **Owner: National Housing Company, Consultant: Zuhair Fayez**
- 9. As Sulayyil (Roads and Infrastructure Project)**
 - **Contract Value: 13 Million SAR**
 - **Tasks: BIM Modeler and Coordinator, Shop drawing**
 - **Owner: National Housing Company, Consultant: Zuhair Fayez**
- 10. Tamani (Roads and Infrastructure Project)**

- **Contract Value: 10 Million SAR**
- **Tasks: Design and Project's Schedule**
- **Owner: Ministry of Housing, Consultant: Dar Al Riyadh**

Interior and Exterior Designer

Wabas Company | Al-Qassim Region, Saudi Arabia

March 2018 - March 2019

Developed innovative and functional interior, exterior, and landscape designs for residential, commercial, and public spaces.

Key Responsibilities:

- **Created detailed 3D visualizations and animations using advanced design tools including 3ds Max, SketchUp, Maya, V-Ray, Corona Renderer**
- **Designed sustainable and visually appealing outdoor spaces with focus on landscape integration**
- **Produced marketing and promotional content, including animations and walkthroughs using After Effects, Premiere Pro, Lumion, and Toon Motion**
- **Delivered 15+ design projects with client satisfaction ratings above 95%**

Land Surveyor

Nile General Company for Roads and Bridges | Qaliubiya, Egypt

April 2016 - May 2017

Key Responsibilities:

- **Operated advanced surveying equipment including Total Station, GPS, and Leveling Instruments to perform accurate land measurements and layout for bridge construction projects**
- **Assisted in design and analysis of construction data using AutoCAD Civil 3D, enhancing the accuracy of alignment, grading, and earthwork computations**
- **Established control points and benchmarks to guide construction teams during the implementation of bridge foundations, piers, and superstructures**
- **Collaborated with technical office to process survey data, generate detailed drawings, and prepare documentation for project approvals**

- **Improved surveying accuracy by 20% through implementation of advanced techniques**
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TECHNICAL SKILLS

- **BIM Coordination & Development: BIM 360, Clash Detection, Federation Models, Model Review, Coordination Workflows, BIM Execution Planning, Standards Implementation**
 - **BIM Modeling: GIS Integration, Steel Structural, Architectural Elements, Road/Highway, Utilities (Wet & Dry) Modeling, Point Cloud Integration**
 - **Interior/Exterior Design: Space Planning, Lighting Design, Material Selection, Sustainable Design, Visualization**
 - **Shop Drawings: Detailed Production Drawings (Structural, Road, Utilities, Architectural, Landscape)**
 - **Software Development: Python, Dynamo, LISP, C#, API Development, Automation Solutions**
 - **Quantity Surveying: Material Takeoffs, Cost Estimation, BOQ Preparation, Measurement Standards**
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SOFTWARE PROFICIENCY

- **Civil Engineering: Civil 3D, Infrastructure Part Editor, Subassembly Composer, Part Builder, Earth Work, Inventor, GIS**
- **Building Information Modeling: Revit, DiRoots, Ntegration, Sofistik, Environment, BIM 360**
- **3D Modeling: 3D Max, Maya, SketchUp, Cinema 4D**
- **Rendering & Visualization: Lumion, Twin motion, Unreal Engine, V-Ray, Corona**
- **Project Management: Synchro, Navisworks, Infracore, Primavera, Recap**
- **Design & Video: Photoshop, Illustrator, After Effects, Adobe Premiere, Media Encoder, Nuke**
- **Programming: Dynamo, Python, C++, C#, HTML, CSS, JavaScript**

- **Structural: AutoCAD Structural Detailing, Arma CAD**
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EDUCATION

Diploma: Surveying and Mapping Specialist

African Arab Institute (6th of October Institute), issued by University of Benha | Cairo, Egypt

June 2013 - June 2015

Diploma: Site Survey Engineer

Cambridge | Cairo, Egypt

March 2017

Note: Currently continuing education from high school level since 2022 toward an academic degree in Engineering Faculty (Third secondary stage as of 2025)

PROFESSIONAL DEVELOPMENT

- **Site Survey Course | Company Landmark, Cairo, Egypt | July - September 2015**
 - **Surveying Programs Course (AutoCAD-Surfer-Prolink) | Company Landmark, Cairo, Egypt | July - September 2015**
 - **Auto CAD Course | Creative, Mansoura, Egypt | 2016**
 - **Maya Course | Creative, Mansoura, Egypt | 2016**
 - **CIVIL 3D Course | Autodesk | 2018**
 - **Revit Course | Autodesk | 2018**
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LANGUAGES

- **Arabic: Native**
- **English: Intermediate**