

Ahmed Osman Fouad

Infrastructure Design & BIM Engineer

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PROFESSIONAL SUMMARY

Infrastructure Design and BIM Engineer with 3+ years of experience in the design, modeling, and coordination of wet and dry utility networks and road works across large-scale GCC projects. Skilled in BEP, ISO 19650 compliance, clash detection, QTO, and shop drawing production. Proficient in Civil 3D, AutoCAD, Revit, Navisworks, Dynamo (advanced scripting), Inventor, WaterGEMS, SewerGEMS, and ACC. Proven ability to deliver clash-free federated models, accurate QTOs, and BIM workflows that support contractors, consultants, and project stakeholders.

PROFESSIONAL EXPERIENCE

Innovo Group

10/2025 – Present | Abu Dhabi, UAE

Infrastructure BIM Coordinator

- Developed comprehensive BIM Execution Plan (BEP) and Master Information Delivery Plan (MIDP) aligned with Aldar Exchange Information Requirements (EIR v3.0), ensuring full compliance with ISO 19650 standards and Aldar's digital delivery protocols.

SSH International Consultant

01/2025 – 10/2025 | Cario, Egypt

Infrastructure Design & BIM Engineer

- Designed wet utility networks (Sewer, Storm, Water, Irrigation) using SewerGEMS/WaterGEMS, ensuring accuracy and compliance with project standards.
- Developed detailed 3D utility models (wet & dry), coordinated and reviewed in Navisworks to support clash detection, design validation, and consultant approvals.
- Produced comprehensive shop drawings and layouts for utilities and road works, reducing design RFIs and supporting construction teams.
- Developed and implemented the Master Information Delivery Plan (MIDP) and Sheet Set Manager workflows to standardize drawing production in line with ISO 19650.

** Projects I have worked on:

- Montage Wadi Safar: (Riyadh, KSA)
- S5 Development: (Sabah Al-Ahmad, Kuwait)
- Mina Al Arab Development: (Ras Al Khaimah, UAE)

Trojan Construction Group

08/2023 – 01/2025 | Cario, Egypt

BIM Infrastructure Engineer

- Prepared detailed 2D shop drawings for both wet and dry utilities.
- Modeled and delivered wet & dry utility networks (LV, MV, Power, Fire Alarm, ELV, Irrigation, Fire Fighting, Storm, Potable Water) in Civil 3D with LOD 450.
- Created a 4D Navisworks simulation to demonstrate project phasing and construction sequencing to stakeholders.
- Delivered a clash-free federated Navisworks model for all wet & dry networks.

** Projects I have worked on:

- Baniyas West: (Abu Dhabi, UAE) - Consultant: Engineering Consultants Group (ECG)
- BalGhailam: (Abu Dhabi, UAE) - Consultant: DAR
- Saadiyat Lagoons: (Abu Dhabi, UAE) - Consultant: Jacobs Solutions
- Reem Hills: (Abu Dhabi, UAE) - Consultant: Parsons Corporation

BIM Infrastructure Engineer

- Proficiently used the BIM system to facilitate collaboration with other companies on the Shura island project on BIM360. Successfully identified and resolved clashes.
- Modeled the various networks, both wet and dry utilities, including LV, MV, Small Power, Fire alarm, ELV duct, IRR, Fire Fighting, Storm, and Potable Water.
- Modeled precise excavation trenches for wet and dry networks using Civil 3D.
- Supported quantity take-offs (QTO) and shop drawing production, improving estimation accuracy and contractor execution.

**** Projects I have worked on:**

- Shura Island: (KSA) - Consultant: KEO International Consultants

 **Graduation Project****Graduation Project**

10/2021 – 07/2022

Infrastructure Design Engineer

- Designed a complete water cycle system (collection, purification, distribution, sewage treatment) using AutoCAD, SewerGEMS, WaterCAD, Civil 3D, ArcGIS.
- Achieved Excellent grade; combined software design with field visits to desalination & treatment plants.

 **EDUCATION****Bachelor's Degree in Civil Engineering**

09/2017 – 08/2022

University Of Zagazig

- Grade: Very Good With Honors (84.6%)

 **SKILLS****Softwares**

- AutoCAD
- Civil 3D
- Revit
- Navisworks
- Dynamo
- Inventor
- Part Builder
- ACC
- WaterGEMS
- SewerGems
- Microsoft Office

BIM Technologies

- Quantity Take-offs (QTO)
- Shop Drawing Production
- Sheet Set Manager (SSM)
- BIM Execution Planning (BEP)
- ISO 19650 Compliance
- Clash Detection & (4D, 5D) Simulation
- Master Information Delivery Plan (MIDP)

 **LANGUAGES****Arabic:** (Native)**English:** (Advanced)