

Ahmed Ibrahim Abdellatief

BIM Lead & BIM Developer

BSI Certified "ISO-19650 Standard"

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Career Objective

BIM Lead & AEC Developer with proven hands-on experience in large-scale projects in KSA and Egypt, like KSP, MISK, NEOM, KAUST, KAFD, and CBD Iconic Towers. Specialized in MEP coordination, clash detection, BEP implementation, and automation using C# and Revit API. Special for improving model accuracy, reducing clashes, and enhancing BIM workflows through QA/QC procedures, compliance, and smart automation. Know more about me from my website: [\[Ai-Soft\]](#) [🔗](#).

BIM Add-ins and Automation Tools Developed by me: [\[BIM Automation Tools\]](#) [🔗](#).

Key Skills

- BIM ISO-19650 Compliance.
- Multidisciplinary MEP Coordination & Model Validation.
- BIM Automation & Custom Add-in Development: C#, Revit API, .NET, WPF.
- 4D/5D BIM Implementation & Data-Driven Delivery.
- SCAN to BIM integration Process.
- CDE Management & Cloud Collaboration: Forma / ACC / BIM 360.
- LOD 400-500 Packages Delivery.
- BIM Certified.
- Revizto Certified.
- Advanced Clash Detection & Model Optimization.
- BIM Training Delivery & Technical Mentorship.
- QA/QC & Code-Compliant Engineering: IEC, SBC, NEC, CIBSE.
- Shop Drawings, BOQs & Technical Submittals.
- Electrical, LV & Low Current Systems Design.

Experience

BIM Lead & BIM Developer

FIRST FIX-KSA

Riyadh, Saudi Arabia

Sep 2025 – Present

- Coordinating MEP models with architectural and structural disciplines following BEP workflows.
- Conducting clash detection and reducing clashes by 90% using Navisworks and Revizto.
- Performing QA/QC, model validation, and ensuring compliance with BIM standards and client requirements.
- Leading SCAN to BIM Process.
- Implement all BIM requirements (TIDP, DRM, Classification, 4D & 5D, ...etc.).
- Developing custom C# BIM add-ins to automate tasks and improve delivery speed.
- Leading coordination meetings and delivering accurate shop drawings aligned with project standards.
- Submit all LOD-400 and LOD-500 BIM Packages.

– **Projects**

- * **ILMI Science Discovery & Innovation Center** (MISK City — Riyadh, KSA).

BIM Coordinator & BIM Developer

FIRST FIX-KSA

Riyadh, Saudi Arabia

Dec 2024 – Sep 2025

- Coordinating MEP models with other disciplines.
- Clash detection and reducing clashes by 90% using Navisworks and Revizto.
- Developing custom C# BIM add-ins to automate tasks.
- Submit all LOD-400 and LOD-500 BIM Packages.

– Projects

- * **ILMI Science Discovery & Innovation Center** (MISK City — Riyadh, KSA).
- * **King Salman Park** (KSP — Riyadh, KSA).

BIM Instructor

COMMA LEARNING SOLUTIONS

Cairo, Egypt

Oct 2023 – Jan 2025

- Delivered BIM training programs for various levels
- Designed interactive content and exercises.
- Led workshops and group training sessions and provided technical mentorship for learners.
- Contributed to the development of BIM training modules, including Revit and coordination workflows.

BIM Coordinator & BIM Developer

HESCO ENGINEERING SERVICES

6-October, Giza, Egypt

Nov 2023 – Dec 2024

- Created 3D MEP BIM models and performed clash detection, model validation, and QA/QC checks.
- Automated tasks using Revit API and C# to enhance productivity and reduce manual effort.
- Prepared shop drawings and BOQs for electrical and low-current systems.
- Ensured design compliance with SBC, NEC, and CIBSE standards.

– Projects

- * **KAUST** (King Abdullah University of Science and Technology — KSA).
- * **MASAR** (Modern City — KSA).
- * **RUWAIS COMPOUND** (Luxury residential complex — KSA).

Electrical BIM Design Engineer & BIM Developer

SABBOUR CONSULTING

Cairo, Egypt

Feb 2022 – Nov 2023

- Designed electrical systems per SBC, NEC, and CIBSE & developed MEP BIM models using Revit.
- Prepared load calculations, lighting design (Dialux Evo), voltage drop, and short-circuit calculations.
- Created custom Revit families and coordinated designs with multidisciplinary teams.
- Coordinated design with multi-disciplinary teams.

– Projects

- * **NEOM Hotel** (3-star hotel in KSA with advanced technologies — KSA).
- * **Nesma Infrastructure Project** (15,000 residents — KSA).
- * **SHELL Administrative Building** (6th of October City — Egypt).
- * **Afrexim Bank Villas** (6 types of villas — Egypt).

Electrical BIM Engineer

ZFP - ZUHAIR FAYEZ PARTNERSHIP CONSULTANTS

Maadi, Cairo, Egypt

Aug 2021 – Feb 2022

- Designed low voltage and light current systems per SBC, NEC, CIBSE standards.
- Designed electrical systems per SBC, NEC, and CIBSE & developed MEP BIM models using Revit.
- Conducted lighting design (Dialux Evo).
- Power calculations (voltage drop, short circuit, equipment sizing).

– **Projects**

- * **KAFD Projects** (Administrative and Residential buildings — KSA).
- * **Saudi Airport** (— KSA).
- * **SOUL Project** (— North Coast, Egypt).

Electrical BIM Technical Office Engineer

CSCEC - CHINA STATE CONSTRUCTION ENGINEERING CORPORATION.

*New Cairo, Egypt
Sep 2020 : Aug 2021*

- Prepared and submitted shop drawings and as-built drawings for Electrical systems.
- Modeled electrical components and layouts using Revit.
- Coordinated with other disciplines to ensure design integration.
- Ensured adherence to safety and quality standards.

– **Projects**

- * **CBD-Iconic Towers, New Cairo** (Residential towers ‘D04, D05’ — New Cairo).
- * **CBD – Iconic Tower, New Alamein** (The main tower with 67 floor — Alamin,Egypt).


Electrical Technical Office & Site Engineer

POWER FOR ELECTROMECHANICAL CONTRACTING

*Aswan, Egypt
Aug 2019 – Sep 2020*

- Designed LV and Light-Current systems (lighting, sockets, HVAC, CCTV, fire alarm, data, access control, nurse call, etc.).
- Produced designs, shop drawings, SLDs, and as-built drawings.
- Created 3D lighting Designs
- Performed BOQ studies and pricing.
- Handled supply orders and coordinated site execution and technical office tasks.

– **Projects**

- * **New Aswan Hospital (8000 m²) - LV & LC Design.**
- * **Hayah Karema – Citizens Service Centers - LV & LC Design.**
- * **Aswan Urology, Orthopedic & Outpatient Clinics – ”Upgrades” - LV & LC Design.**
- * **Faculty of Physical Education (7000 m²), College of Arts – Luxor (1800 m²)Football Field (70x90 m) - LV & LC Design.**
- * **We–Aswan Branch - Site & Technical Office.**
- * **Health Units – Universal Health Insurance (Multiple Locations).**
- * **Hospital Service Center – kitchen, laundry, sterilization (2100 m²) - LV & LC Design.**
- * **E-Learning Centers – Luxor & Aswan Universities (4,000–12,000 m²) - LV & LC Design.**
- * **Luxor University E-learning Center (4000m²) – Aswan University E-learning Center and Residential Part (12000m²) - LV & LC Design & Shop Drawing.**
- * **3D Lighting Designs** [[Link for My Lighting Design Portfolio](#)] 

Education

Aswan University

Bachelor’s Degree in Electrical Engineering

Sept 2014 – May 2019

- **Graduation Project:** Electrical Distribution Systems (Grade: Excellent)
- **Graduation Year:** 2019

Skills

○ **Technical Skills:**

- BIM: ISO19650, Revit, Navisworks, AutoCAD, Autodesk Construction Cloud(ACC), Revizto, Civil 3D, ReCap Pro.
- Electrical Design Tools: ABB DocWin, Dialux Evo.
- Programming & Development: C#, .NET Framework, WPF.
- Project Management: Microsoft Office Suite (Power Bi, Power Automate, Excel, Word, Power Point).
- Multimedia: Adobe Suite (Photoshop, Illustrator, After Effects, Premiere, Audition).
- AI & Digital Productivity: Advanced proficiency in using AI platforms to enhance productivity, support BIM workflows, automate tasks, and assist both technical and creative processes.

○ **Personal Skills:**

- Strong presentation and communication abilities.
- Effective team collaboration and leadership.
- Problem-solving and creative thinking.

○ **Language Skills:**

- Arabic: Mother Language.
- English: Proficient (reading, writing, speaking).

Courses and Certifications

- BSI for BIM Iso 19650 (**British Standards Institution**) Sep 2025
- Level 3: Elite Expert Course (**REVIZTO Academy**) April 2025
- Level 2: Coordination Mastery Course (**REVIZTO Academy**) April 2025
- Level 1: Collaboration Essentials Course (**REVIZTO Academy**) March 2025
- AiCE (Artificial Intelligence Career Enhancement) (**ALX**) Jan 2024
- BIM Automation (API Programming) (**Kaitech**) July 2023
- MEP BIM Diploma (**Kaitech**) July 2022
- Facade and Landscape Lighting Design (**Udemy**) Dec 2021
- Advanced Dialux Evo for Lighting Design (**Udemy**) Nov 2021
- Dialux evo for Advanced Users (**Udemy**) OCT 2021
- Revit MEP (**Udemy**) OCT 2020

Trainings and Internships

- Electrical Distribution System Training (**Power Company**) April 2019
- Hydro Plants Generation Company (**Hydro Plants Generation**) Jul 2018
- Talkha Compound Power Station (**Summer training**) Aug 2016
- TOT - Training of Trainers (**Helwan university**) Jun 2018
- PMP Course (**E-youth Company Sponsored by USAID**) Mar 2017
- Robotic Course and Competition (**Aswan Faculty of Engineering**) Feb 2015

Volunteer Work and Activities

- Head of Logistics - IEEE Aswan Student Branch.
- Head of Entrepreneurship - Masr Ta3mal (Microsoft).
- Soft Skills Trainer - Khatwa Foundation.
- Youth Trainer - Y-Peer Egypt (UNFPA Initiative).