

# Ahmad Ismail

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## Professional Summary

Structural BIM Engineer with expertise in Building Information Modeling (BIM) for structural projects. Skilled in model coordination, clash detection, and collaboration with multidisciplinary teams. Proficient in Revit, Navisworks, and BIM 360, ensuring seamless integration of structural models with architectural and MEP disciplines. Adept at managing BIM workflows, automating tasks, and enhancing efficiency through ISO 19650-compliant processes. Strong experience in delivering high-quality structural designs and coordinating large-scale infrastructure projects.

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## Core Competencies

- **BIM Coordination:** Managing multidisciplinary coordination, clash detection, and resolution.
- **Revit Modeling:** Developing and optimizing 3D structural models for detailed design and documentation.
- **Clash Detection & Resolution:** Using Navisworks for conflict identification and coordination.
- **BIM 360 & Collaboration Tools:** Managing cloud-based workflows and document control.
- **Project Management:** Planning, scheduling, and coordinating BIM tasks efficiently.
- **Standards & Compliance:** Implementing ISO 19650 and ensuring adherence to BIM protocols.
- **Automation & Optimization:** Enhancing workflows through Dynamo and C# scripting.

## Work Experience

### **Structural BIM Engineer**

Concrete Plus, New Cairo | *October 2024 - Present*

- Leading structural BIM coordination and managing model integration with other disciplines.
- Developing detailed 3D models, extracting shop drawings, and ensuring compliance with project standards.
- Conducting clash detection and resolving issues with architects, MEP engineers, and contractors.
- Managing BIM 360 for collaboration, document management, and workflow automation.
- Supporting 4D and 5D simulations for construction sequencing and cost estimation.

### **Structural Design/BIM Engineer**

SAAD International Consultant Engineers (SICE), New Cairo | *December 2023 - October 2024*

- Designed and analyzed complex bridges (girder and box girder) using CSI Bridge.
- Developed advanced Revit models for major infrastructure projects like Aswan Law Dam and Hassaballah El Kafrawy Bridge.
- Coordinated BIM workflows with structural and civil teams for optimized design and clash-free execution.
- Ensured compliance with BIM standards and facilitated seamless information exchange.

## Internships

### **Trainee – Shop Drawing and Site Engineer**

Lasirena Group | April 2020

- Assisted in site inspections and contributed to the preparation of shop drawings.
- Gained hands-on experience in project coordination and site management.

### **Trainee – Site Engineer**

SICE (Saad International Consultant Engineers) | August 2022 - September 2022

- Supported site operations and collaborated with senior engineers on project execution.
  - Involved in quality control checks and project reporting.
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## **Education**

BCs Degree of Science, Civil Engineering  
Major: Structural Engineering  
Graduation Project: Project Management  
Ain Shams University, Cairo, Egypt  
Graduate: 2022

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## **Certifications & Training**

- Structural BIM Diploma (KAITECH, Aug 2023 - Jan 2024): BIM Fundamentals, Revit Advanced, Clash Detection, 4D/5D Simulation.
- Revit Structure Certification (CAD Masters, Sep 2020).
- Team Leader Certification (KAITECH): Leadership, project execution from 3D to 7D (Facility Management).

## **Courses**

Structural BIM Diploma (KAITECH, Aug 2023 - Jan 2024): BIM Fundamentals, Revit Advanced, Clash Detection, 4D/5D Simulation.

Revit Structure Course (CAD Masters, Sep 2020).

## **Technical Skills**

AutoCAD, Revit Structure, Navisworks, Civil 3D, CSI Bridge, SAFE, ETABS, SAP. Proficient in Primavera P6 and BIM 360 for project scheduling and coordination.

## **Personal Skills**

Strong Communication, Leadership, Risk Management, Organizational Planning, Problem-solving, Team Collaboration.

## **Languages**

Arabic (Native), English (Proficient)