



## HOSSAM ELDEN GAMAL ABD ELWAHED

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 [LinkedIn](#)  Egyptian

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## PROFESSIONAL TITLE

**BIM Road Engineer | Civil 3D Specialist**

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## PROFESSIONAL SUMMARY

Experienced **BIM Roads Engineer** in modeling, designing, planning, and managing road infrastructure projects through Building Information Modeling (BIM) processes. Adept at coordinating multidisciplinary teams, ensuring efficient project delivery, and implementing cutting-edge BIM technologies to streamline workflows, reduce costs, and improve overall project quality. Proficient in road design, 3D modeling, clash detection, and data management, with a strong ability to collaborate with clients, contractors, and stakeholders to meet project objectives.

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## CORE SKILLS

- **BIM Software:** Autodesk Civil 3D, Subassembly Composer, Navisworks, InfraWorks, AutoCAD
  - **Road Design:** Horizontal/Vertical Alignment, Super-elevation, Cross Sections, Pavement Design
  - **Project Delivery:** Clash Detection, Federated Models, Shop Drawings, Quantity Take-Off
  - **Standards & Protocols:** AASHTO, ISO 19650, IFC Workflows
  - **Modeling & Analysis:** Terrain Modeling, Site Analysis, Environmental Simulations
  - **Communication:** Stakeholder Engagement, Technical Presentations, BIM Coordination Meetings
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## PROFESSIONAL EXPERIENCE

### **BIM Road Engineer**

*Smart Engineering Consultancy (SEC) – KSA*

**July 2023 – Present**

- Developed over 20+ detailed 3D road models using Civil 3D and Navisworks for Qiddiya and King Abdulaziz Park projects.
- Generated shop drawings with precision, ensuring compliance with project standards.

- Participated in weekly BIM coordination meetings; resolved 95% of interdisciplinary clashes pre-construction.
- Conducted data extraction for quantities, terrain modeling, and cross-sectional design validations.

### **Technical Office & Site Engineer**

*Professional Engineering for Roads – Egypt*

**March 2023 – July 2023**

- Supported planning and execution of highway and urban road designs in compliance with national and international guidelines.
- Produced construction documentation and collaborated with survey teams for design adjustments.

### **Engineer Army Officer**

*Egyptian Armed Forces*

**November 2020 – March 2023**

- Led civil engineering operations including road construction, terrain preparation, and site logistics.
- Gained experience in risk assessment, technical reporting, and logistics under high-pressure conditions.

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## **EDUCATION**

### **Bachelor of Civil Engineering**

Zagazig University, Egypt – *Graduated: 2020*

- Grade: Good • Graduation Project: Excellent (Highways, Roads Utilities & Airports)

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## **LANGUAGES**

- Arabic: Native
- English: Fluent
- French: Beginner

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## **ADDITIONS**

- Driving License
- Willing to relocate or travel