Khaled Hussein Abdel-Motaal Mohamed

Contact Information

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Professional Summary:

Dynamic civil engineer with specialized expertise in steel structures and over three years of experience in Building Information Modeling (BIM) tools such as Revit and Tekla. Skilled in structural analysis, multidisciplinary collaboration, and delivering optimized, high-quality designs. Proficient in leveraging cutting-edge software and automation techniques to streamline workflows and achieve project goals efficiently.

Education

- Bachelor's Degree in Civil Engineering, Steel Structures Specialization
  - Mansoura University, Faculty of Engineering **(2024)**
  - Graduation Project Grade: **Excellent**

Professional Experience

Steel Structures Design Intern

- Designed steel structures compliant with the Egyptian Code.
- Conducted structural analysis and design using SAP2000 and Excel Sheets.
- Delivered optimized designs for multi-story buildings, achieving a 20% reduction in material costs.

BIM Workflow Optimization Project

- Automated repetitive design tasks using Python and Dynamo, reducing design time by 30%.
- Trained team members on workflow improvements, enhancing efficiency and minimizing errors.

Skills

Technical Skills:

- **Design Software:** SAP2000, Idea Statica
- **Detailing Software:** AutoCAD, Revit, Tekla Structures
- **Management Software:** Navisworks
- **Programming:** Python (Workflow Automation), C# (Plugin Development)
- **Visual Programming:** Dynamo, Grasshopper

Soft Skills:

- Teamwork | Communication | Public Speaking | Presentation Skills

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Certifications and Training

- BIM Development Course (ITI)
- BIM Course (Kaitech Academy)
- Steel Structures Design Course (American Code, Dr. Elia Hanein)
- Steel Structures Detailing Course (Eng. Hosni Gaber)

Languages

- Arabic: Native
- English: Intermediate (Strong writing and reading, ongoing improvement in speaking)