

Mohamed Abdel Aty

Email: moabdelaty@outlook.com | Mobile: +201123004219

LinkedIn: www.linkedin.com/in/mo-abdel-aty

Address: Cairo, Egypt.

OBJECTIVE

Construction Management graduate with one year of experience. Optimizing workflows and enhancing project efficiency through technology. Seeking a role in the AEC industry to apply skills in BIM workflow optimization and construction management.

EDUCATION

- **Ain Shams University (JUL 2022).**
 - Bachelor's degree in Civil Engineering – Building Engineering Program (Construction Management)
 - Graduation Project (GPA:3.85): Complete Management Plan for QNB Headquarters in the New Capital.
- **University of Nebraska-Lincoln | USA (Fall 2019).**
 - Exchange non-degree program for 1 semester.
 - Fully funded scholarship from the USAID.

WORK EXPERIENCE

- **Geomatic Engineer | Micro Engineering Egypt (JAN 2024 – Present)**
 - **Cruise Map Labeling Project**
 - Lead a team in the Mapping Project, utilizing Google Apps Script for resource assignment and progress tracking with real-time updates via Google Sheets.
 - Conduct Root Cause Analysis (RCAs) and present findings to optimize processes and improve project quality.
 - Monitored project schedule, activities and milestones, ensuring alignment with the baseline, and maintain professional communication with the client through established channels (Slack Platform).
 - **SOPC (Suez Oil Processing Company) As-built 3D Modeling Project**
 - Created 3D models for oil and gas processing facilities using AutoCAD Plant 3D and BIM tools.
 - Conducted as-built modeling and utilized Navisworks for quality control, clash detection, and Point Cloud data integration.
 - Enhanced project efficiency by implementing a standardized quality control process.
- **Engineer intern | Avanti for Advanced Construction (JUN 2022 – AUG 2022)**
 - Inspected post-tension beam installations at the LRT Capital 4 project.
 - Designed post-tension systems and created shop drawings using ADPT software.
 - Prepared quantity surveys, value engineering, and progress reports for client updates.
- **Engineer Intern | Sabbour Consulting (SEP 2021 – OCT 2021)**
 - Supervised site inspections at the One-Ninety Project, ensuring quality and compliance with specifications.
 - Reviewed technical designs and materials to ensure accuracy and adherence to project requirements.

TECHNICAL SKILLS

- **Revit API & BIM Automation:**
 - Developed C# plugins for workflow automation, schedule generation, and element manipulation.
 - Created tools for bulk editing multiple elements, enhancing productivity.
 - Designed custom UIs, integrated Revit with external data sources (CSV, Excel), and optimized plugin performance.

- **Project Planning, Automation & BIM Integration:**

- Leveraged Primavera P6, CPM, and EVM for project scheduling, delay analysis, and baseline management.
- Automated milestone tracking, task dependencies, and resource utilization with Google Apps Script and Google Workspace APIs, enhancing efficiency in cost, budget, and risk tracking.
- Integrated BIM tools (Revit, Navisworks) for 4D simulations and workflow optimization.
- Streamlined project updates with bulk editing tools for XER files using Excel and Primavera P6.

- **Machine Learning for Risk & Cost Prediction:**

- Utilized **TensorFlow**, using **Google Colab**, to predict cost overruns, delays, and risks based on historical project data, aiding risk mitigation strategies.

HEAD SKILLS

- **BIM Tools:** Revit, Navisworks, AutoCAD Plant 3D.
- **Programming and Automation:** C#, Revit API, Google Apps Script.
- **Project Management:** Primavera P6, Microsoft Project, EVM.
- **Languages**
 - English: Advanced proficiency (B2 level). TOEFL **iBT**(73) – TOEFL **ITP**(523) – **TOEIC**(800).

INTERPERSONAL SKILLS

- Collaboration, leadership and Professional communication skills.
- Critical thinking and effective learning skills.

COURSES AND SEMINARS

- BIM Development Track | KAITECH Academy (Feb 2025 – Aug 2025, In Progress)
- BIM Diploma | Niqat (Feb 2025 – Nov 2025, In Progress)
- BIM Development Diploma | Engineering Secrets Academy (2024)
- Advanced Project management course | Udemy (2022)
- Project management course | Calibers - Cad Masters (2022)
- Leadership and Soft Skills/ Entrepreneurship and Career Development Camps | Amideast (SEP 2017/FEB 2019)

PERSONAL INFORMATION

- Military service: Completed.