

Muhammed Shawky Alameldin

Senior Architectural BIM Engineer

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Behance: <https://www.behance.net/gallery/241565147/Project-Portfolio>



Professional Summary

Senior Architectural Engineer with over 8 years of experience delivering architectural design, BIM coordination, and technical office support for hospitality, residential, and commercial projects across Saudi Arabia and Egypt. Strong expertise in design development, design coordination, shop drawings review, RFIs management, cost control, and construction phase support. Proficient in Revit, Navisworks, Autodesk Construction Cloud (BIM 360), and ISO 19650 workflows, achieving up to 30% clash reduction and ensuring full Saudi Building Code compliance. Proven leader in multidisciplinary coordination, stakeholder management, and knowledge sharing.

Work Experience

Role: Senior Architectural BIM Engineer | Company name: Basamaat Consulting Engineering

Date: May 2023 – Present | Riyadh, Saudi Arabia

Client Type: Consultant / Developer Number of Projects: 6 Active Projects

Project Type: Commercial & Residential Buildings Project Value: Approx. 20–30 million SAR

- Led architectural design development from concept through IFC drawings in accordance with approved BEPs, project requirements, and SBC regulations.
- Managed multidisciplinary BIM models (Architecture, Structure, MEP), achieving 30% reduction in design clashes and improving coordination efficiency.
- Reviewed and approved 150+ shop drawings, RFIs, and material submittals, ensuring compliance with designs, specifications, and authority requirements.
- Provided full architectural and technical support during the construction phase, resolving site-related design issues and coordination conflicts.
- Coordinated authority approvals and construction permits through Baladi and MODON platforms.
- Led technical coordination meetings with clients, consultants, and contractors to address design risks, constructability issues, and compliance matters.
- Implemented QA/QC procedures on site to ensure quality, accuracy, and adherence to project specifications.
- Supported cost estimation, cost control, and value engineering initiatives to optimize project budgets without compromising design intent.

Key Project:

- Abaker Real Estate Group – Amenities Building (Approx. 4,300 m²)
- Abaker Real Estate Group – Luxury Villa (Approx. 1,500 m²)
- Al-Jafary Commercial & Office Building (Approx. 4,500 m²)

Role: Technical Office Architectural Engineer | BIM Engineer | Company name: Hassan Allam Construction

Date: May 2022- May 2023 | Sharm Elsheikh Red Sea, Egypt

Client Type: Real Estate Developer (TMG) Number of Projects: 8 Packages within Resort

Project Type: Hospitality Projects (5-Star Resort) Project Value: Approx. 380 million Dollar

- Reviewed subcontractor shop drawings for fit-out, hospitality, and residential projects, ensuring compliance with specifications, FF&E, and BOQs.
- Prepared and managed RFIs to resolve missing, unclear, or conflicting technical information across architectural and interior works.
- Coordinated material submittals and approvals with consultants and material engineers, including finishes, joinery, and bespoke furniture.
- Conducted regular site visits to verify construction compliance with approved drawings and specifications for interior fit-out and finishing works.
- Supervised execution and finishing stages, including quality control and material testing for hospitality and residential developments.
- Estimated material quantities and costs and supported value engineering proposals to achieve cost-effective design and execution solutions.
- Participated in resolving technical and construction challenges during execution stages in coordination with site teams and project management.

Key Project:

- Hospitality Projects: Four Seasons Resort Sharm Elsheikh (Phase Two Multiple Facilities within Resort Master Plan Approx. 440,000 m²)

Role: Technical Office Architectural Engineer | Company name: Orascom Construction Industries

Date: January 2021- May 2022 | Hurghada, Red Sea, Egypt

Client Type: Real Estate Developer (SOMA BAY) Number of Projects: Projects: 4 Villas & Facilities

Project Type: Residential Resort Developments Project Value: Approx. 300 million EGP

- Preparing drawings, specifications, and construction documents (Interior & Architectural details).
- Submit shop drawings and prepare any requests for information RFI to the consultant and client.
- Coordinate with MEP to ensure appropriate placement of final fix MEP Items to meet architectural.
- Coordination with the site among all disciplines and solving the problems that occurred during construction.
- Update As-Built Drawings to match and coordinate with Construction.
- Submit the Material to the consulting Engineers for approval as per the material specifications.
- Estimate material requirements and costs for approval with the project manager.
- Supervise site activities Execution, Finishing, Interior, Material testing, and quality with the site engineer.
- Monitoring and controlling the technical design and Materials changes.
- Preparing execution time schedules and efficiently organizing the site facilities to meet agreed deadlines.
- Check the rate of material and minimize the wastage upon dry layout.
- Participate in solving/reporting any unexpected technical difficulties and other problems.

Key Project:

- Hospitality Projects: Soma Bay Resort (MESCA Zone Villas, Cabins & Landscape Facilities Approx. 580.000 m²)

Role: Technical office Architectural Engineer | Company name: Arab Contractors (Osman Ahmed Osman Co.)

Date: August 2017- December 2020 | Cairo, Egypt

- Prepared and reviewed architectural and interior shop drawings and construction documents.
- Coordinated with MEP teams to ensure proper final fix integration with architectural and interior works.
- Managed site coordination across all disciplines and resolved construction and fit-out issues.
- Reviewed BOQs, quantities, and cost estimates to ensure accuracy and budget compliance.
- Supervised interior fit-out, finishing works, and site execution in coordination with the project manager.
- Acted as technical advisor on site for subcontractors and specialized trades.
- Selected materials, finishes, and bespoke furniture in line with design intent and approved budgets.
- Coordinated furniture manufacturing, installation, and quality control.
- Implemented quality control, HSE standards, and monitored execution schedules.
- Developed cost-effective solutions and value engineering proposals.

Education

Bachelor of Architecture, Faculty of Engineering, Tanta University – Egypt

- Graduated: 2017
- Major: Architectural Design
- Graduation Project: Therapeutic Tourist Village Design

Licenses & Certifications

- Registered Architect – Saudi Council of Engineers (SCE) | Membership No: 946996
- Registered Architect – Egyptian Engineers Syndicate (EES) | Membership No: 14/3903703/2017/4
- Autodesk Certified Professional – Revit for Architectural Design | Certificate No: EM303567098241625732818
- Autodesk Certified Professional – BIM Coordinator (Building) | Certificate No: EM303567098241695732818
- Autodesk Professional – BIM Manager (ISO 19650) | Certificate No: EM303567098241405732818
- Autodesk BIM Diploma | Certificate No: EM303567098598885732818

Competencies Skills

- Strong understanding of BIM workflows, LOD, Cobie, data management, Construction Administration, and Site Coordination.
- Architectural Design & Design Development with focus on Stakeholder & Client Coordination
- Design Coordination (Architecture, Structural, MEP, Façade)
- BIM Coordination Reduced RFIs by 20% & BIM Execution Plans (BEP)
- Shop Drawings Review & Approval
- RFIs, MARs & Technical Submittals
- Cost Control, Quantity Take-Off & Value Engineering
- Saudi Building Code (SBC) & Regulatory Requirements
- Technical Reviews & Quality Assurance / Quality Control

Soft Skills

- Strong leadership and mentoring skills, supporting team development and knowledge sharing.
- Excellent communication and stakeholder management skills with clients, consultants, and contractors.
- Advanced analytical and problem-solving abilities for resolving design and construction challenges.
- High attention to detail and technical accuracy across all project phases.
- Proven ability to manage multiple priorities, deadlines, and project phases effectively.
- Strategic and creative design thinking, balancing aesthetics, constructability, and cost efficiency.

Programs Tools

- Autodesk Revit (Architectural Design)
- Autodesk 3ds Max (V-Ray)
- Autodesk Construction Cloud (ACC), (BIM 360)
- Autodesk Navisworks
- Autodesk AutoCAD
- SYNCHRO 4D
- Oracle Aconex
- Microsoft Office
- Adobe Photoshop

Language

- Arabic: Native
- English: Professional Working Proficiency

Additional Information

- Residency Status: Transferable Iqama.
- Driving License: Valid Saudi Driving License.