Over twenty-five years (8 with ECG) experience in the field of structural engineering including design of reinforced concrete and steel structures according to Egyptian codes or international codes (ACI, AISC, BS); BIM (Building Information Modeling) applications-Autodesk Revit projects; design of different systems for foundations (isolated, strap, raft and piles); design and review of different systems of steel structures (industrial projects with different equipment and different conditions of cranes, touristic projects and sports halls; preparation of detailed drawings; review of contractors’ workshop drawings; resisting lateral loads as wind load or seismic load in space modeling by analysis programs as well supervision of senior structural engineers and draftsmen for various projects including touristic and industrial buildings, airports, dry ports and general projects.

**NATIONALITY**

Egyptian

**DATE OF BIRTH**

22/2/1967

**LANGUAGES**

Arabic & English (Fluent)

**EDUCATION AND PROFESSIONAL QUALIFICATIONS**

* Researching PhD., Structural Engineering, Ain Shams University.
* M.Sc., Structural Engineering, Ain Shams University, Egypt, 2001.
* B.Sc., Structural Engineering, Ain Shams University, Egypt, 1990.
* Consultant Engineer (Design of Concrete & Steel Structures), the Engineering Syndicate.
* Member, the Egyptian Syndicate of Engineers.

**EXPERIENCE**

* **2007-Present, ECG Engineering Consultants Group**, Cairo, Egypt;
* Principal Structural Engineer/Team Leader.
* Duties include design review and supervision of the work team in structural engineering projects; reviewing and approving technical quality of all structural works; leading groups and structural teams; coordinating with other project members and disciplines on different design problems; coordinating all issues relevant to structural designs and requirements; verifying that all structural designs, drawings and documents are prepared out in accordance with current codes and standards and Company policies and standards; providing leadership and guidance on structural analysis, design and specifications for many projects including:
* AL MUROOJ GC3 LANDSCAPE AND INFRASTRUCTURE, KING ABDULLAH ECONOMIC CITY. GC3 (Golf Community 3) is a neighborhood within the larger Al Murooj District, King Abdullah Economic City. The neighborhood area reaches 262,694 m2.
* PUBLIC PROSECUTION HEAD OFFICE BUILDING (as Internal reviewer). Oman, With a built-up area of 14,772m2, the building consists of a ground floor and 5 floors.
* SUEZ CEMENT PLANT REVAMP (review contractor design drawings).
* MASTER PLANNING & INFRASTRUCTURE DESIGN OF PACKAGE 4 (7 SITES IN KSA). The project consists of seven land parcels in KSA ranging from 191,140 m2 to 2,678,499 m2. Total area of the seven parcels is 7,433,767 m2.
* KUFRA AIRPORT AIRFIELD REHABILITATION. Kufra Airport is an airport in Kufra, southeastern Libya. The airport comprises a (3,660 x 30 m) paved lighted runway. The objective of this assignment is to rehabilitate the airfield comprising runway, parallel taxiway and apron.
* Two Towers in Lusail Area, Qatar. The project comprised the design of two mixed use towers of plots (5870m2) located in the corner of two major roads within the development. The total Built-up Area: 20545m2.
* Call-Off Design Consultancy Services for Barwa New Cairo, Egypt.
* Spa and Gym - Marassi Beach Club, Marassi, Sidi AbdelRahman, Egypt. The building consists of 2 floors (Ground and First) with a total built-up area 1,174m2.
* Qatar Emiri Naval Forces Base Buildings Package, Qatar.
* DS7 Central Support Facility-ExxonMobil, Iraq. The project comprised support facilities including Warehouse Building, Maintenance Building, Chemical Storage Building, Fabrication, Vehicle Maintenance Building, One-Hundred Man Office Building, Sand Blast and Paint Shed Building and Tire Storage Building.
* Clean Fuels Project at MAA and MAB Refinery, Kuwait. A major upgrade of the Mina Al Ahmani (MAA) and Mina Abdullah (MAB) refineries to increase their capacities to 800 KBBL, currently 736 KBBL. ECG scope included preliminary design, specifications and BOQ.
* Consultancy Services for Al-Jazeera Arabic Channel Building Extension, Qatar. The structural system for Aljazeera Arabic Channel was chosen to sustain safely all the applied vertical and lateral loads with considerable factor of safety. The elements of the structural system were clearly defined. According to the client and architectural requirements, large spans and diversity of area usage were adopted in some areas that were mainly used as a studio and for offices purposes.
* Quesna Airport New Terminal Building, Egypt. The new terminal has a total built-up area of 4,200m2 and shall accommodate 160 pax/ hour.
* National Bank of Egypt – Assiut & Red Sea Branches, Egypt. Construction, renovation and upgrading of two (2) branches. The reconstruction process comprises elevations' cladding replacement, interior refurbishment, and mechanical/electrical/ plumping system.
* INMA Office and Shopping Center, Egypt. The project has a special location on 90th Street on a plot area of 12,542m2. It contains 2 basements as a parking area, upper basement, ground floor, first floor used as a shopping center and 3 typical floors as office areas. ECG's scope adopted the construction concept of core and shell except in the public areas such as entrances, stairs, toilets and corridors. ECG used Revit BIM Package throughout the design process.
* Ritz Carlton Palm Hills Golf Club and Resort, Egypt. With a built-up area of 70,000m2 the project involves the development of a 160 key luxury hotel and a world-class golf club. The hotel consists of the basement floor with a total area of approximately 19,000m2 including the parking and the main utilities of the building which are the main kitchen with its services, the laundry, boiler, and the MEP rooms; the ground and the mezzanine floors with a total foot print area of approximately 14,500m2 including public spaces which are mainly the hotel main lobby.
* National Bank of Egypt – Greater Cairo Branches (2), Egypt. Design, construction as well as renovation of the bank’s branches. The reconstruction process comprises elevations’ cladding replacement, interior refurbishment, and mechanical/electrical/plumping system.
* Cairo Festival City, Egypt. The project is composed of primarily two segments: a massively sized mall building and complementary retail village. Both components unfold sizeable net leasable and total built-up areas of nearly 145,000m2 and 404,000m2, respectively.
* Domaitic Packing Plant – Beheira, Egypt. The Project comprises four buildings: 1) Administration Building (area, 2,000m2) comprising 2 floors; 2) Separate and filling Hanger (area, 12,150m2 comprising a steel structure open space building with height 10 m, enclosed by masonry wall till 5,000 mm high; 3) Services Building (area, 420m2) comprising only ground floor comprising electric rooms, ablution and prayer room, butchery, freezer, workers bedrooms and toilets; and 4) Storage Building (area, 260m2) comprising only 1 floor for storage.
* Palm Parks Project, Egypt. Located in 6th of October City, Egypt, the Palm Parks residential development stretches over a total area of 474,600m2. The project is divided into two different types (apartments and town houses). They unveil a 330,960m2 residential neighborhood with high-end residential buildings wrapped amid a luxury mix of lush residential gardens and lakes.
* Domiatic Agricultural Packing Plant, Egypt. The project comprises an 11,000 ton capacity cold storage, separation and classification warehouse, administration building, refrigerator building, service building, drivers and selling building, two main and branch gates, security towers and mosque.
* Al-Waab Design of Villas and Neighborhood Clubhouse, Qatar. AlWaab City blossoms into an exclusive ensemble of luxurious villas, a series of medium-rise residential apartments, over 100,000m2 of retail and recreation space, nearly 200,000m2 of commercial space, a world-class 200 room hotel, and over ten thousand car parking slots.
* Sea Breeze Apartment Resort, Egypt. Construction of a touristic resort and apartment hotel. The total built up area is 42,500m2.
* Al Mehwar Office Building at Smart Village, Egypt. The building comprises three basements, a ground floor, and five floors with total built-up area of 11,200m2. The design is clearly represented in the entrance and the main facade of the building. A huge curtain wall cladding covered the building skin with external vertical solid columns until fourth floor in very nice elevations.
* Concordia Office Building at Smart Village, Egypt. A new building consisting of two (2) basements, ground floor and five (5) floors with foot print area (1,000m2).
* Cairo and Alexandria Stock Exchange Office Building, Smart Village.
* **2006-2007, Zuhair Fayez Partnership**, Egypt.
* Structural Group Leader for Design Projects.
* Responsibilities included complete analysis and design of structural elements (concrete and steel) using computer programs and spreadsheets or manual design; preparing, modifying and reviewing structural drawings and calculation of the following projects:
* Hai Al Aziziah Water Tower, KSA.
* City of Yanboua al Sinayiah Potable Water Tower, City of Yanboua, KSA.
* **2005-2006, ASA Consultants**, Egypt.
* Senior Structural Engineer and Reviewer for Design Projects.
* Responsibilities included complete analysis and design of structural elements (concrete and steel) using computer programs and spreadsheets or manual design; preparing, modifying and reviewing structural drawings and calculation of the following projects:
* Safier Hotel Renovation, Dokki & Zamalik, Egypt.
* Blue Bay Hotel, Sharm El Sheikh.
* Caribbean World Hotel, Hurghada.
* Sol Eliete Hotel, Sharm El Sheikh.
* **2002-2003, Arab Academy for Science and Technology and Maritime Transport**, Egypt; Assistance Lecturer.
* **1991-2005 Sabbour Associates Office**, Egypt.
* Structural Design Engineer & Reviewer.
* Responsibilities included complete analysis and design of structural elements (concrete) using computer programs as well as spreadsheets; preparing, modifying and reviewing structural drawings and calculation of various projects including:
* Moustafa Mahmoud Garage, three underground floors.
* Dry Port, Bashteel.
* Iberotel Hotel, Egypt.
* Gaza International Airport, Rafah.
* Al Ahly Club Stadium, Cairo.
* Sara Plaza Tower.
* El Fayrouz Beach Village, North Coast.
* Coral Beach Village.
* Main Pump Station for Baragil Village.
* Factory of Egyptian Company for Wire, Cairo.
* Coca-Cola Plant, 6th of October City.
* **1990-1991, Dars Associates, Dr. Mostafa Korashi Office**, Egypt.
* Structural Design Engineer.
* Duties included analysis and design of structural elements for the project of:
* “Factory of Al Falankat”, Kalyoub, Egypt.

**TRAINING COURSES**

* Autodesk Revit structure program , 2012
* Effective Presentation Skills,
* Team Building, 2011
* Mastering SAP 2000, 2004
* Seismic Retrofit and Upgrading Fundamentals, Cairo University, 1998
* Egyptian Code for Reinforced concrete, Building Research Center, 1995
* Egyptian Code for Steel Structures, Cairo University, 1994
* QMS – Process Measurements, 2000
* Qualification of internal Quality Auditors, 2000
* 2D, AutoCAD, 1992
* Basic Language Programming, 1988

**COMPUTER SKILLS**

* Autodesk Revit Program
* STAAD III Program
* ETAB Program
* SAFE Program
* ANSYS Program
* SAP 2000 Nonlinear
* 2D, AutoCAD
* PROKON Structural analysis and design program.
* PCACOL Program
* In house design computer software and program for design and analysis
* Spread Sheets for design of sections, connections for Steel Structures and design of sections for Concrete Structures.
* MS Office applications (Word & Excel).