

Mohamed Salama

PhD. MSc. BSc

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Personal Profile

Structural engineer with a solid background in civil structural engineering in conjunction with 33+ years of engineering experience. A lead engineer and subject matter expert in civil and structural Engineering, supporting project teams delivering facilities valued from tens of millions of dollars to hundreds of millions of dollars, in the MENA region. Participated in all phases of project delivery including estimating, design, procurement, construction. Extensive experience in Finite Element theory and application for static, dynamic, and seismic application. Soil Structure interaction analysis, Soil-pile-structure interaction analysis. Registered as unlimited structural engineer with Dubai Municipality and a consultant engineer in Egypt, with extensive experience in structural, Marine and value engineering in diversity of projects such as; high rise buildings, hotels, commercial buildings, malls, hospitals, factories, floating structures, marine quay wall, breakwaters, pontoons and mooring facilities. Acquainted with up to date modeling software and design codes. Rigorous experience acting as third-party reviewer of many projects in Dubai, UAE. Utilizing the proper structural materials and construction technique in order to maximize the function/cost ratio, structural system upgrade, strengthening and rehabilitation of deteriorated structures with ease of construct-ability. Notable accomplishment in construction supervision based on contract administration, work plan, specifications, method statements, inspection manual, Health & Safety, Quality and logistic plans, and sustainability.

Career Path

Aug. 2017-present, Director Structural & Marine Engineering, The Heart of Europe Development, Dubai, UAE (www.thoe.com)

- Work with clients and stakeholders to define their requirements related to their projects.
- lead and manage structural and marine design teams' staff within a large multidiscipline project team.
- working in a structural engineering team Preparation of man-hour estimates to perform project tasks.
- Preparation of structural plans, structural models, structural details, specifications, and cost estimates for projects.
- Revision of drawings, specifications for construct-ability, owner's quality, contract adherence.
- Promotion of cost reduction (value engineering) and productivity enhancing initiatives.
- Managing engineering design and design changes within approved budget and schedule.
- Preparing Marine Studies, marine design of floating buildings, pontoons, quay wall, breakwaters, sheet piles and marine stability.
- Review construction contractor field erection plans, shop drawings, and material data sheets.
- Provide technical assistance during contract bidding, bid clarifications, RFIs, proposal evaluations, negotiations, and post-award design review and construction administration services.
- Preparation of technical tender.

Career Path

May 2015-Aug. 2017, Head of Structural Eng. Dept., Raafat Miller Consulting, Cairo, Egypt (<https://www.rmc-partners.com>)

- Work with clients and stakeholders to define their requirements related to their projects.
- lead and manage structural teams' staff.
- working in a structural engineering team within a large multidiscipline project team.
- Preparation of design basis for projects.
- Preparation of man-hour estimates to perform project tasks.
- Preparation of structural plans, structural models, structural details, specifications, and cost estimates for projects.
- Revision of drawings, specifications for construct-ability, owner's quality, contract adherence.
- Promotion of cost reduction (value engineering) and productivity enhancing initiatives.
- Managing engineering design and design changes within approved budget and schedule.
- Review construction contractor field erection plans, shop drawings, and material data sheets.
- Provide technical assistance during contract bidding, bid clarifications, RFIs, proposal evaluations, negotiations, and post-award design review and construction administration services.
- Preparation of technical tender.

Career Path

May 2005-May 2015, Head of Structural Eng. Dept., Salama Structural Engineers, Dubai, Doha, KSA, Cairo. (www.sseweb.ae)

- Work with clients and stakeholders to define their requirements related to their projects.
- lead and manage structural teams' staff.
- Preparation of design basis for projects.
- Preparation of man-hour estimates to perform project tasks.
- Preparation of structural plans, structural models, structural details, specifications, and cost estimates for projects.
- Revision of drawings, specifications for construct-ability, owner's quality, contract adherence.
- Promotion of cost reduction (value engineering) and productivity enhancing initiatives.
- Managing engineering design and design changes within approved budget and schedule.
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- Provide technical assistance during contract bidding, bid clarifications, RFIs, proposal evaluations, negotiations, and post-award design review and construction administration services.
- Preparation of technical tender.

Career Path

May 1995-May 2005, Head of Structural Eng. Dept., NG-Design office, Cairo, Egypt. (<http://www.ng-designoffice.com>)

- Work with clients and stakeholders to define their requirements related to their projects.
- lead and manage structural teams' staff.
- Preparation of design basis for projects.
- Preparation of man-hour estimates to perform project tasks.
- Preparation of structural plans, structural models, structural details, specifications, and cost estimates for projects.
- Revision of drawings, specifications for construct-ability, owner's quality, contract adherence.
- Promotion of cost reduction (value engineering) and productivity enhancing initiatives.
- Managing engineering design and design changes within approved budget and schedule.
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- Provide technical assistance during contract bidding, bid clarifications, RFIs, proposal evaluations, negotiations, and post-award design review and construction administration services.
- Preparation of technical tender.

Career Path

October 1986-January 1992, Senior Structural Engineer, Salama Structural Engineers, Cairo, Egypt. (www.sse.ae)

- Preparation of design basis for projects.
- Preparation of structural plans, structural models, structural details, specifications, and cost estimates for projects.
- Revision of drawings, specifications for construct-ability, owner's quality, contract adherence.
- Promotion of cost reduction (value engineering) and productivity enhancing initiatives.
- Managing engineering design and design changes within approved budget and schedule.
- Review construction contractor field erection plans, shop drawings, and material data sheets.
- Provide technical assistance during contract bidding, bid clarifications, RFIs, proposal evaluations, negotiations, and post-award design review and construction administration services.
- Preparation of technical tender.

Education

1995, PhD, Nagoya Institute of Technology, Japan

- PhD structural engineering, Thesis title "Thin Plate Bending Problems of Composite Bi-material Structures with Debonding and Cracking"

1991, MSc, University of Ain Shams, Egypt

- MSc structural engineering, Thesis title "Structural Synthesis of Prefabricated Prestressed Concrete Beams"

1986, BSc (Honor), University of Benha, Egypt

- BSc structural engineering, Graduation Project (Distinction): "Analysis and Design of Reinforced Concrete Structures"

Statement of Professional Experience

- Structural and seismic analysis and design of reinforced concrete, pre-stressed concrete, precast concrete, steel and masonry structures.
- Value engineering of structures of reinforced concrete, pre-stressed concrete and steel structures.
- Analysis and design of shoring of underground structures.
- Modeling and design of pre-stressed concrete floors.
- Construction stages analysis.
- Retrofitting, rehabilitation and upgrading of deteriorated/damaged structures using FRP (Fiber Reinforcement Plastics) and traditional methods.
- Design of quay-wall, pontoons, revetment, marina and dredging.
- Soil settlement, liquefaction and slope stability.
- Marine structural stability.
- Design of Basement, tunnels, and bridges.
- Structural Design Management.
- Structural Designs (Pre -FEED; FEED; Optioning; Detailed Design).
- Structural stability and Integrity.
- Decommissioning.
- Structural Analysis (wind, wave, earthquake, blast loading).
- Project Management (CTR preparation; cost and resource control).
- Steelwork & Connections Design.
- Fabrication Design & Supervision.
- Structural Assessment (structural modifications; dismantling; scaffold loading etc.
- Finite element analysis.
- Lifting and transportation analysis.
- Equipment foundations and support structures.

Codes & Software

Codes:

- ACI318-14, BS8110, IBC2012, ASCE 7-10, UBC-97, ACI 350M-01, ACI530-08, AISC-2000, AWS-D1-02.1991, Shell DEPs; DNV; API.

Software:

- SAP2000 ; ETABS; SAFE.
- ADAPT; RAM Concept.
- ReWaRD; WALLAP.
- STAAD foundation.
- S-Frame and TEDDS.
- Microsoft suite (including MS Project)
- AutoCad & REVIT

Membership of Professional Bodies

- Member of the American Society of Civil Engineers, 2013.
- Member of the Society of Tunneling, Egypt, 2009.
- Member of the Society of Engineers, UAE, 2008.
- Member of the Egyptian Society of Engineers, 2003
- Member of the Japan Society of Civil Engineers, 1994.
- Member of the Japan Society of Material Science, 1993.
- Member of the National congress of Theoretical and Applied Mechanics of Japan, 1993.
- Member of the Institution of Civil Engineers, Egypt, 1986.

Conferences Attended

- The Fourth International Conference on Residual Stresses, Society for Experimental Mechanics, Baltimore, Maryland, 1994, USA.
- Japan NCTAM (National Congress of Theoretical and Applied Mechanics), 1994, Japan.
- The 49th Annual Conference of the Japan Society of Civil Engineers 1994, Japan.
- The 48th Annual Conference of the Japan Society of Civil Engineers 1993, Japan.
- Japan NCTAM (National Congress of Theoretical and Applied Mechanics), 1993, Japan.
- The 7th Symposium on Fracture and Fracture Mechanics, the Society of Material Science, Fukuoka, Japan, 1993, Japan.
- The 47th Annual Conference of the Japan Society of Civil Engineers 1992, Japan.

Achievement

- **2008**, Unlimited Structural Engineer, Dubai Municipality, Dubai, UAE
- **2006**, Post Tension Design Course at Imperial College, University of London, UK.
- **2003**, Expert of Inspection and Damage Assessor, Egyptian Financial Supervisory Authority, Egypt.
- **2002**, Structural Consultant Engineer, Egyptian Engineering Syndicate, Egypt.

Personal Data

- Date of birth: November 29, 1963
- Place of birth: Cairo, Egypt
- Nationality: Egyptian
- Marital Status: Married with two children
- Languages: Arabic (mother tongue) – English (proficient)– French (Good) Japanese (Fair).

Projects

(shorthand list)

- **August 2018**: Structural, marine stability, launching and mooring design of floating Villa and floating Venice island with the heart of Europe, Dubai, UAE.
- **December 2017**: Structural and seismic design of a group of 13 hotels on the "world island" Dubai, UAE
- **July 2016**: Structural Design of NNCI (New National Cancer Institute), Architect SOM.
- **Jan 2013**: Structural value Engineering Al Jawharah Towers –Jeddah- KSA.
- **April 2008**: Structural design of Jeddah Gated – Plot E3 – 3 towers of 26 floors each and 3 Podiums. Jeddah – KSA– Owner Emaar
- **May 2007**: Structural design of Al-Sharjah Mall, a structure of 3 basements and 30 floors above ground. The structure is a composition of reinforced concrete, prestressed concrete and steel structures, Sharjah-UAE.
- **Jan 2006**: Structural design of workers city in Abu-Dhabi. 12 buildings made of pre- Cast concrete structures. Architect ACG Abu-Dhabi, UAE.
- **Jan 2005**: Structural redesign (value engineering) and supervision of work at the site of the Doha City Center, Doha, Qatar. Five towers of 48 floors each on an area of 30,000 m2. HOK Canada.
- **Nov. 2004**: Structural and seismic redesign and supervision of work at the site of - 7 - Business Bay project consisting of eleven towers in Dubai.