

Mona Mahmoud Fawzy
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Objective

Currently looking for a challenging career that offers the opportunity to be involved in successful team projects and completing my researches in structural engineering.

Current Occupation

Present

- Assistant Professor in Structural Engineering Department, El Shorouk Academy
- Certified professional trainer at Faculty and Leadership Development Center, Cairo university

2017- February 2018 Part-time Assistant Professor in Civil Engineering Department, Canadian International Collage

2014- 2017 Part-time Assistant Professor in Structural Engineering Department, Helwan University (New programs)

2014- 2017 Part-time Assistant Professor in Structural Engineering Department, Higher Technology Institute 10th of Ramadan City

2008- 2013 Teaching assistant at Civil Engineering Department, El Shorouk Academy

2005-2008 Lecturer at Civil Engineering Department, EL Shorouk Academy

2005-2008 Post graduate student Civil Engineering, Ain Shams University

Engineering Experience

- Quantity survey and detailing of steel factories and tanks by **Tekla** program
- Design of steel tanks and steel industrial buildings by **STAAD**
- Design of reinforced concrete residential buildings.

References will be furnished upon request

Academic Background

2016 Certified professional trainer accredited from Missouri university, USA and Cairo University, Egypt.

2013 Doctor of Philosophy (Ph.D.) in Civil Engineering, ‘Moment Connections of

Beams and Concrete-Filled Steel Columns', Ain Shams University

2005-2008 Masters in Civil Engineering, 'Torsional– Flexural Buckling Loads Of Compressed Members With Unsymmetric Steel Sections', Ain Shams University

2000-2005 Bachelor (B.Sc.) in Civil Engineering, Ain Shams University, Faculty of Engineering, Structural Department

Personal Data

Date of birth: April 14, 1982

Nationality: Egyptian

Marital status: Married, one child

Main job responsibilities

- **Supervising graduation steel projects for 13 years**
- Teaching **design of Steel Structures** (3rd year civil engineering) including; calculation of primary and secondary loads, design of axially loaded truss tension and compression members, design of steel frames, design of purlins, side girts, end gable columns, crane track girder, wind bracing, truss member connections, extended end plate rigid connections and base connections.
- Teaching **design of Steel Bridges (roadway and railway)** (4th year civil engineering) including; design of stringer, cross girder, main girder, wind and bracing force bracing, connection between stringer and cross girder, connection between cross girder and main girder, beam grids and composite steel and concrete structures.
- Teaching **Structural analysis** (civil engineering) including; determinate and indeterminate systems. Slope deflection equations of equilibrium. Moment distribution for beams and frames, three moment equation, virtual work for frames and trusses. Stiffness analysis of frames.
- Teaching **Communication Skills** (written and face to face meetings), knowledge of management principles (planning, organizing, staffing, directing, reporting,

coordinating and budgeting), business communication strategies and quality control management.

- Teaching **Communication and Effective Presentation Skills**, writing, listening and convincing skills, body language, technical presentation, meeting, speeches, interviews and rejection treatment.
- Teaching **Effective Project Phases Management**, project cost control, construction projects safety measures, engineering ethics, introduction to the construction contracts, knowledge of FIDIC conditions for contracts of construction, introduction to Consolidated Building Law number 119 (2008), introduction to Engineering Association Law number 66 (1974) and Criminal Liability for engineering according to Egyptian Law.
- Teaching **Business Writing** including; main components of reports, gathering of data, brain storming, writing, arrangement of paragraph and revising. Writing business memo, letter and email.
- Teaching **Project Planning and Control Techniques** for (3rd and 4th year civil engineering) including; work breakdown structure, network planning (precedence, critical path method, and bar chart), crashing, resource levelling, resource allocation and line of balance.
- Teaching **Design of Properties of Materials** (1st and 2nd year civil engineering) including; properties of stones, bricks, cement, coarse and fine aggregate, properties of fresh and hardened concrete and quality control.
- Head of midterm exams committee in civil engineering department, coordinating all midterm exams of the department.
- Supervising students during mid-term and final exams
- Member in control committee, preparing student's grades
- Member in lectures table committee, coordinating lecturers and students time schedules.
- Member in civil engineering department committee, assisting in coordinating most issues of the department.

Publications

- ‘Behavior of Stiffened and Unstiffened CFT Under Concentric Loading, An Experimental Study’, Steel and Composite structures, technopress, acceptance November 2019.
- ‘Using Icon Super Concrete in Unreinforced Floors’’, International Journal of Advance Engineering and research development, Vol. (5), No. (1), November 2018.
- ‘THE IMPACT OF USING POLYMER IMPREGNATED POROUS CONCRETE IN STRUCTURAL ENGINEERING APPLICATIONS’’, International Journal of Current Engineering and Technology Inpressco, Vol. (7), No. (2), March 2017.
- ‘‘SHEAR STRENGTH OF LEAN DUPLEX STAINLESS STEEL COMPRESSION FLANGE GIRDERS’’, International Journal of Advances in Engineering Research (IJAER), Vol. (12), No. (4), October 2016, pages 47-68.
- ‘‘Axial behavior of stainless steel square thin walled tubes stiffened internally’’, INTERNATIONAL JOURNAL OF CIVIL ENGINEERING & TECHNOLOGY (IJCIET), Vol (6), No (11), November 2015, pages 45-54.
- ‘‘Stiffener configurations of beam to concrete-filled tube column connections’’, Steel and Composite Structures, Vol (17), No (1), July 2014, pages 83-103.
- ‘‘Stiffener Configurations in Moment Connections Between Steel I-Beams and Concrete-Filled Steel Tube Columns’’, World Applied Sciences Journal, Vol 3, No (2), 2014, pages 120-132.
- ‘‘Investigation of in-plane moment connections of I-beams to square concrete-filled tube columns under gravity loads’’, Housing and Building National Research Center, HBRC Journal. Available online March 2014
- ‘‘Moment Connections of Steel I-Beams and Square Concrete Filled Steel Tube Columns’’, Civil Engineering Research Magazine, CERM, AL-Azhar University, Vol (35) No. (2), 2013.
- ‘‘Experimental and Analytical Studies on Moment Connections of Steel I-Beams and Square Concrete Filled Steel Tube Columns’’, Civil Engineering Research Magazine, CERM, AL-Azhar University, Vol (35) No. (3), 2013.
- ‘‘Flexural Torsional Buckling of Steel T- sections Subjected to Axial Compressive Force’’, Twelfth International Colloquium on Structural and Geotechnical Engineering, Ain Shams University, Cairo, Egypt 2007.

- “Behavior of welded single angles subjected to compressive forces”, Thirteenth International Colloquium on Structural and Geotechnical Engineering, Ain Shams University, Cairo, Egypt 2009.

Attended conferences

- Second international conference on innovative building materials (IBMC18), 2-4 December 2018.
- Second annual conference of planning and project management, American University in Cairo, 22nd August 2015.
- Innovation in education conference, sponsored by Nothing Hill College, 24th October 2015.

Attended courses

- Electronic exams and grading of exam paper, March 2019
- E-learning, Cairo University, November 2016
- Publishing research papers internationally, Cairo University, May 2016
- Certified professional manager, CPM, Ain Shams University, January 2016
- Using new technology in teaching methods and E learning, Cairo University, November 2015
- Strategic planning, Ain Shams University, August 2015
- Scientific research ethics, Ain Shams University, August 2015
- Quality in teaching process, Ain Shams University, August 2015

Skills

- Sap- Autocad- Cosmos- Primavera (P3)- STAAD- Tekla Structures- Ansys
- Fluent English with excellent writing and speaking skills and oral presentation.
- ELTS, score 7