Curriculum Vitae

Dr. Abdel Meguid Mohamed Refaat

Assistant Professor of Railway Engineering

Faculty of Engineering – Cairo University

PERSONAL DATA:

NAME	***:***	***Abdel Meguid Mohamed Refaat Abdel Meguid***
DATE OF BIRTH	***:***	*May 9, 1972.*
DATE OF BIRTH	***:***	*Egypt - Cairo.*
NATIONALITY	***:***	*Egyptian.*
MARITAL STATUS	***:***	*Married.*
ADDRESS	***:***	*Compound Lavanda Residence, 3rd Quarter, Plot No. 3/8, Building D, Apartment 304, Middle Hill, Al Mokattam City, Cairo, Egypt.*
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SCIENTIFIC DEGREE:

**** B.Sc., Civil Engineering:*** *Faculty of Engineering, Cairo University (1995).*

Degree of Appreciation ***:*** *Distinction with Honor Degree.*

Rank ***:*** *Third.*

Graduation Project ***:*** *Reinforced Concrete Design (Distinction).*

**** M.Sc., Civil Engineering:*** *Faculty of Engineering, Cairo University (2001).*

Major : *Public Works Engineering - Railway Engineering.*

Title : Air Pollution from Railway Locomotives*.*

**** PhD, Civil Engineering:*** *Faculty of Engineering, Cairo University (2008).*

Major : *Public Works Engineering - Railway Engineering.*

Title : "Rescheduling of Trains on Double Track Railway Lines in Case of One Track Disturbance to Minimize Total Delay Costs"*.*

ACADEMIC EXPERIENCE: (Positions)

2008 – Till Now : Assistant Professor *of Railway Engineering, Public Works Department, Faculty of Engineering, Cairo University.*

2001 – 2008 : Lecturer Assistant*, Public Works Department, Faculty of Engineering, Cairo University.*

1995 – 2001 : Instructor*, Public Works Department, Faculty of Engineering, Cairo University.*

- ***Teaching Courses***

  Undergraduate: ***- Railway Engineering***

  Postgraduate: ***- Geometric Design of Railways***
  - Permanent Way
  - Turnouts
  - Stations and Yards
  - Signaling

- ***Teaching Activities***
  - *Teaching the course of "**Railway Engineering**" for 4th year Civil at the **Faculty of Engineering, Cairo University**, 1995 – till now.*
  - *Teaching the course of "**Railway Engineering**" for 4th year Civil at the **Higher Institute of Engineering, 15th May City**, 2006 – till now.*
  - *Teaching the course of "**Railway Engineering**" for 4th year Civil at the **Institute of Aviation Engineering and Technology**, 2008 – 2017.*
  - *Teaching the course of "**Railway Engineering**" for 4th year Civil at the **Thebes Higher Institute of Engineering**, 2012 – 2014.*
  - *Teaching the course of "**Rail Transport Safety**" for **Master of Transportation Safety,** Tempus Project No.543923/TEMPUS/1/2013/1/EG/TEMPUS/JPCR, Hit4Mid, 2014 – till now.*
  - *Teaching the course of "**Railway Engineering**" for 4th year Civil at **The Higher Technological Institute – 6th October**, 2015 – 2016.*
  - *Teaching the course of "**Railway Engineering**" for 4th year Civil at **The German University in Cairo (GUC)**, 2015 – 2016.*
  - *Teaching the course of "**Railway Engineering**" for 4th year Civil at **The Arab Academy for Science & Technology – Smart Village, 6th October**, 2017 – till now.*

- ***M.Sc. Supervision***
  - *Sarah Mostafa Kamel,* ***"Analysis of Level Crossing Accidents on Egyptian National Railways"****, Faculty of Engineering, Cairo University, 2008-2011.*
  - *Ahmed Saeed Abdel Azim,* ***"Risk Management of Illegal Level Crossings on Egyptian National Railways Network"****, Faculty of Engineering, Cairo University, 2013 – 2017.*
  - *Mahmoud Mostafa Yousry, "The Possibility of Improving the Substructure of Egyptian National Railways to Withstand High Speed Trains", Faculty of Engineering, Cairo University, 2011 - till now.*
  - *Ahmed Mohamed El-Sayed, "Causes and Solutions of Rail Ends Wearing at Joints", Faculty of Engineering, Cairo University, 2012 - till now.*
- ***Publications***
  - *Refaat, A. M., "Rescheduling of Trains on Double Track Railway Lines in Case of One Track Disturbance to Minimize Total Delay Costs", The 13th Scientific Seminar of the Arab Railway Union, Amman, Nov. 2008.*

COMPUTER EXPERIENCE:

- *Operating Systems (Dos, Windows 98, 2000, ME, XP).*
- *Drawing Software (AutoCad).*
- *Surveying and Alignment Software (AutoDesk Land Desktop, AutoDesk Civil 3D).*
- *Structural Analysis and Design Software (SAP, STAAD, my own programs).*
- *Data Base Software (Data Base, Access).*
- *Word Processing Software (Microsoft Word).*
- *Spread Sheet Software (Microsoft Excel).*
- *Presentation Software (Microsoft PowerPoint).*
- *Programming Languages (Fortran, QBasic, Visual Basic).*
- *Internet and Web Sites Construction (Microsoft FrontPage).*

LANGUAGES:

- *Arabic : Excellent (Mother Language).*
- *English : Very Good (TOEFL Score 566 Local).*

FIELDS OF PROFESSIONAL EXPERIENCE:

- *Railway Lines Planning, Design, and Feasibility Studies of Railway Projects.*
- *Railway Construction Supervision, and Operation and Maintenance Management.*
- *Railway Simulation and Modeling including Computerized Applications Design.*
- *Supervision and Quality Control Management of Railway Projects including many Civil Works like Earthworks for Railway Lines and Roads, Road Pavements and alignment, Concrete Structures, Track Installation, Track Maintenance, ...*
- *Structural Analysis and Design of all Types of Reinforced Concrete Structures.*
- *Supervision and Quality Control Management of Concrete Construction Projects.*

KEY QUALIFICATIONS:

Assistant professor of railway engineering in the Faculty of Engineering, Cairo University. Executive director for some railway projects and assistant project manager for some others. Participated in many railway and metro projects including track alignment and design, preliminary and detailed design, feasibility studies, railway operation, maintenance, and training such as Al Mashaaer Al Mugaddassah Metro Project, Commissioning the Study of 10th of Ramadan Railroad Project, Comprehensive Design of Bilbis/10th of Ramadan Railway Line, Studying The Final Route between km 2.5 and km 18 to serve Sadat City, Preliminary study for two Railway Lines in Syria, and Technical Advisory and Work Supervision for the Project of Development of Egyptian National Railways Level Crossings, phase I 345 Level Crossing, phase II 297 Level Crossings, and phase III 295 Level Crossings.

COUNTRIES OF WORK EXPERIENCE:

- *Egypt* *1995 – till now*
- *Syria* *2005 - 2007*
- *Saudi Arabia* *2005 - 2009*

PROFESSIONAL EXPERIENCE (Railway Engineering Field):

1) ***Manager*** *of Surveying and Railway Planning Team for project of* ***"Preparing the Financial, Economic, Environmental, Social and Technical Study for the project of Rehabilitation or Doubling the Railway Line (Qalioub/Menouf/Tanta or Qalyoub/Menouf/Kafr El Zayat) According to Transportation Traffic Demand "****. The project including a Transportation study and a Study of raising the railway line efficiency or doubling the line and implementing variable operating scenarios, then implementing an executive study and preparing the tender documents, the project implemented by ARC for Designs and Engineering Consulting in cooperation with Al-Raed Consulting Office, for the Egyptian National Railways (from July 2020 to date).*

2) ***Project Manager*** *of Detailed Planning and Construction Supervision team for project of* ***"Construction of North Giza Station and Railway Services Workshops - BASHTEEL Triangle, Giza "****, the project including planning of two passenger stations, and main line Cairo/High Dam Detour, in addition to a passenger coaches hanger containing 12 tracks, 2 locomotives hangers containing 3 tracks for each, the project implemented by ARC for Designs and Engineering Consulting in cooperation with DIAA Consult, for MOT Investment Projects Company, (March 2019 – till now).*

3) ***Project Manager*** *for project of* ***"Construction of Workshops for Armed Vehicles and Tanks, and Administration Building, in Egyptian Tank Plant (Army Factory ETP 200)"****. The project is funded by the Military Production Authority - Military Production Company for Projects and Consults. The project is carried out by ARC for Designs and Engineering Consulting. the project including a workshop with dimensions 30x150 m, in addition to an administration building, with cost about 120 Million L.E. (Feb. 2019 – September 2020).*

4) ***Detailed Planning for New Yard Tracks Serving Silos – Mahager Abo Zaabal*** *in addition to site planning, for Egyptian Railways for Track Renewal and Maintenance Company ERTRAC, (April 2019).*

5) ***Detailed Planning for New Track Segment in El Ain El Sokhna Port*** *in addition to site planning, for DUBAI World Sokhna Port (DP World Sokhna), (March 2019).*

6) ***Detailed Planning for Tracks modifications of MANSOURA Station Yard*** *in addition to site planning, for Egyptian Railways for Track Renewal and Maintenance Company ERTRAC, (March 2019).*

7) ***Detailed Planning for Tracks modifications of ASYOUT Station Yard*** *in addition to site planning, for Egyptian Railways for Track Renewal and Maintenance Company ERTRAC, (March 2019).*

8) ***Detailed Planning for Tracks modifications of MARAGHA Station Yard*** *in addition to site planning, for Egyptian Railways for Track Renewal and Maintenance Company ERTRAC, (March 2019).*

9) ***Detailed Planning for Tracks modifications of GIZERT SHANDAWEL Station Yard*** *in addition to site planning, for Egyptian Railways for Track Renewal and Maintenance Company ERTRAC, (Feb. 2019).*

10) ***Detailed Planning for TAFLA Railway Track Segment - ASWAN*** *in addition to site planning, for Egyptian Railways for Track Renewal and Maintenance Company ERTRAC, (Feb. 2019).*

11) ***Executive Project Manager*** *of the Consultant Team for project of* ***"Supervision of Civil Works for Development of Egyptian National Railways Level Crossings, 1st Highest Priority, Phase 4, 280 Lx."*** *including Quality Control Management and Quality Assurance of all the civil works items. The project is funded by the Egyptian National Railways. The supervision is carried out by the Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University, (March 2016 – till now).*

12) ***Executive Project Manager*** *of the Consultant Team for project of* ***"Supervision of Civil Works for Development of Egyptian National Railways Level Crossings, 1st Highest Priority, Phase 3, 295 Lx."*** *including Quality Control Management and Quality Assurance of all the civil works items. The project is funded by the Egyptian National Railways. The supervision is carried out by the Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University, (March 2014 – till now).*

13) ***Executive Project Manager*** *of the Consultant Team for project of* ***"Supervision of Civil Works for Development of Egyptian National Railways Level Crossings, 1st Highest Priority, Phase 2, 297 Lx."*** *including Quality Control Management and Quality Assurance of all the civil works items. The project is funded by the Egyptian National Railways. The supervision is carried out by the Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University, (March 2014 – till now).*

14) ***Project Manager*** *of the Consultant Team for the Study of* ***"Identifying Illegal Rail Crossings and Importance of Regulating some of them According National and international Standards".*** *The study is funded by the Ministry of Transport, Transport Planning Authority (TPA). The study is carried out by the Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University, (Sep. 2013 – May 2016).*

15) ***Project Manager*** *for project of "* ***Railway Pipeline Crossings and ARAMCO Culverts****", Jubail, Kingdom of Saudi Arabia, in co-operation with Saudi Consulting Services (SaudConsult), the project including:*

- *Executing study for construction of four railway track detours for the railway line leading to and within the Ras Al-Khair Industrial City (RIC) to construct culverts under the railway line.*
- *Preparing cost estimate, specifications, and Bill of Quantities.*

Jubail, Kingdom of Saudi Arabia, (June 2012 – April 2013).

16) ***Project Manager*** *of the Consultant Team for the project of* ***"Preparing a Study for Proposed Railway Link to serve 6th October City"****. The project including:*
   - *Executive study for modifying El Wahat El Baharia railway line for a distance about 30 km to be outside the city border and doubling the railway line from Maraziq Station to 6th October City.*
   - *Preliminary study to quadrate Cairo/High Dam railway line from Giza Station to Maraziq Station to serve passengers of 6th October City.*
   - *Preliminary study for a direct link from Cairo/High Dam railway line to 6th October City.*

   The project is funded by the Egyptian National Railways. The project is carried out by the Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University, (April 2010 – July 2011).

17) ***Assistant Project Manager*** *of the Consultant Team for the project of* ***"Studying the Final Route between km 2.5 and km 18 to serve Sadat City"****. The project is funded by the Egyptian National Railways. The project is carried out by the Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University, (Jan 2009 – Sep 2009).*

18) ***Assistant Project Manager*** *of the Consultant Team for the project of* ***"Construction of Railway Line between Bilbis and 10th of Ramadan City"****. The project is funded by the Egyptian National Railways. The project is carried out by the Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University, (April 2009 – 2015).*

19) ***Senior Railway Expert*** *of the Consultant Team for project of* ***"Supervision of Supply and Installation of Local and Imported Components for the Protection and Operation of Egyptian National Railways Level Crossings, 1st Highest Priority, Phase 1, 345 Lx."*** *including Quality Control Management and Quality Assurance of Level Crossings Protection Devices Installation. The project is funded by the Egyptian National Railways. The supervision is carried out by the Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University, (Jan 2009 – 2015).*

20) ***Assistant Project Manager*** *of the Consultant Team for project of* ***"Supervision of Civil Works for Development of Egyptian National Railways Level Crossings, 1st Highest Priority, Phase 1, 345 Lx."*** *including Quality Control Management and Quality Assurance of all the civil works items. The project is funded by the Egyptian National*

Railways. The supervision is carried out by the Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University, (Jul 2008 – April 2014).

21) ***Senior Railway Expert*** *of the Consultant Team for project of* ***"PLANNING STUDY FOR INTEGRATED TRANSPORT SYSTEM IN MINA"***

The study objectives are:

- *Comprehensive planning for transportation in the study area which identified from the western end of Muzdalifah, fully Mina, until the beginning of Makkah at the western side of Mina.*
- *Separation of vehicles movement from the pedestrians movement in the study area.*
- *Provide an adequate, developed and highly efficient transportation system to serve pilgrims and related services including shuttle movements of pilgrims within the study area.*
- *Assure that the proposed transportation facilities are economically, as well as financially feasible, and they will not negatively affect the environment.*

The project is funded by Ministry of Municipal and Rural Affairs Kingdom of Saudi Arabia. The project is carried out by Beeah consultant in association with transport planning & engineering consultants (El- Hawary & Associates), (December 2005 - December 2007).

22) ***Senior Railway Expert*** *of the Consultant Team for project of* ***"Preliminary Study (Technical and Economical) of the Rout between Al-Sharkeyeh Station and Muhine-Damascus Line (Existing and New Line)".*** *The project is funded by the Syrian Railways General Establishment. The project is carried out by the Arab Center for Integrated Studies in association with Transport Planning & Engineering Consultants, (El-Hawary & Associates), Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University, and Global Geobits for Information Technology, (Aug. 2005 - Oct. 2007).*

23) ***Senior Railway Expert*** *of the Consultant Team for project of* ***"Preliminary Study (Technical and Economical) of the Rout between Domier & El-Qaboon"****. The project is funded by the Syrian Railways General Establishment. The project is carried out by the Arab Center for Integrated Studies in association with Transport Planning & Engineering Consultants, (El-Hawary & Associates), Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University, and Global Geobits for Information Technology, (Aug. 2005- Dec. 2007).*

24) ***Senior Railway Expert*** *of the Consultant Team for project of* ***"Alexandria to Borg El-Arab Rapid Rail Link Project – Passenger Travel Demand – Preliminary Study"****. The project is funded from the Ministry of Transport. The project is carried out by the Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University, (Aug. 2005 – Oct. 2005).*

25) ***Senior Railway Expert*** *for the Consultation Support for Project* ***"Development of Egyptian National Railways Grade Crossings, First Priority, Phase I".*** *The project is funded by the Egyptian National Railways. The project is carried out by the Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University, (Jan 2005 – Feb 2008).*

26) ***Senior Railway Expert*** *of the Consultant Team for the Study of* ***"Building a National Institution to Organize Inland Transport in Egypt".*** *The study is funded by the Ministry of Transport, Transport Planning Authority (TPA). The study is carried out by the Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University in association with Transport Planning & Engineering Consultants (EL Hawary & Associates) and the Research Center of Sadat Academy for Management, (Mar. 2004 – Oct. 2004).*

27) ***Assistant Project Manager*** *of the Consultant Team for the Study of* ***"Supporting Tools for the Development of Egyptian National Railways Railroad Grade Crossings".*** *The study is funded by the Ministry of Transport, Transport Planning Authority (TPA). The study is carried out by the Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University, (April 2003 – Sep. 2003).*

28) ***Assistant Project Manager*** *of the Consultant Team for the Study of* ***"Development of Crossings for Egyptian National Railways****". The study is funded by Ministry of Transport, Transport Planning Authority (TPA). The study is carried out by the Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University, (June 2002 – Oct. 2002).*

29) ***Junior Railway Expert*** *of the Consultant Team for the Study of* ***"Transportation Economics under the New Variables and Policies****". The study is funded by Ministry of Transport, Transport Planning Authority (TPA). The study is carried out by the Civil Engineering Studies and Researches Center, Faculty of Engineering, Cairo University in association with Transport Planning & Engineering Consultants (EL Hawary & Associates) and the Research Center of Sadat Academy for Management, (Sep. 2001 – June 2002).*

30) ***Junior Railway Expert*** *of the Consultant Team for the Project of* ***"Measures for Improvement of ENR's Cost Recovery****". The project is carried out by the Transport Planning and Engineering Consultants (EL Hawary & Associates) in association with Transportation Systems and Market Research LTD. (TRANSMARK), (1998 – 1999).*

PROFESSIONAL EXPERIENCE (Structural Analysis and Design Field):

1) *Structural Analysis and Design of Medical Center with area of 7700 m^2 consisting of 2 Basements, Ground, and 6 typical floors, 90th Street, 5th Community, New Cairo City, March, 2013.*
2) *Structural Analysis and Design of Residential Building with area of 340 m^2 consisting of Basement, Ground, and 5 typical floors, El kanaria, 6th October City, March, 2013.*
3) *Structural Analysis and Design of High Residential Building with area of 430 m^2 consisting of Basement, Ground, and 11 typical floors, El Nasr Road, in front of Arab Contractors Medical Center, Cairo, March, 2013.*
4) *Structural Analysis and Design of High Residential Building with area of 312 m^2 consisting of Ground, and 12 typical floors, El Nasr Road, in front of Arab Contractors Medical Center, Cairo, February, 2013.*
5) *Structural Analysis and Design of High Residential Building with area of 340 m^2 consisting of Ground, and 12 typical floors, El Nasr Road, in front of Arab Contractors Medical Center, Cairo, January, 2013.*
6) *Structural Analysis and Design of Administrative, Commercial, and Residential Mall with area of 8866 m^2 consisting of Basement, Ground, and 4 typical floors, 6th October City, January, 2013.*
7) *Structural Analysis and Design of Residential Building with area of 540 m^2 consisting of Basement, Ground, and 5 typical floors, Small Investor, 5th Community, New Cairo City, November, 2012.*
8) *Structural Analysis and Design of Residential Building with area of 360 m^2 consisting of Basement, Ground, and 5 typical floors, Small Investor, 5th Community, New Cairo City, November, 2012.*
9) *Structural Analysis and Design of High Residential Building with area of 775 m^2 consisting of 2 Basement, Ground, and 12 typical floors, El Nasr Road, in front of Arab Contractors Medical Center, Cairo, October, 2012.*
10) *Structural Analysis and Design of Residential Building with area of 200 m^2 consisting of Basement, Ground, and 4 typical floors, Al Mokattam City, January, 2012.*
11) *Structural Analysis and Design of Residential Villa with area of 315 m^2 consisting of Basement, Ground, and 2 typical floors, Al Rehab City, Cairo, December, 2011.*
12) *Structural Analysis and Design of Residential Building with area of 415 m^2 consisting of Basement, Ground, and 4 typical floors, El Sherouqe City, December, 2011.*
13) *Structural Analysis and Design of Residential Building with area of 190 m^2 consisting of Basement, Ground, and 4 typical floors, Abul Houl, New Cairo City, August, 2011.*

14) *Structural Analysis and Design of Residential Building with area of 390 m^2 consisting of Basement, Ground, and 5 typical floors, Nasr City, Cairo, July, 2011.*
15) *Structural Analysis and Design of Commercial Mall with area of 180 m^2 consisting of Basement, Ground, and 3 typical floors, El Banafsig, New Cairo City, July, 2011.*
16) *Structural Analysis and Design of Medical Center with area of 3100 m^2 consisting of Basement, Ground, and 3 typical floors, 90th Street, 5th Community, New Cairo City, April, 2011.*
17) *Structural Analysis and Design of Residential Building with area of 240 m^2 consisting of Basement, Ground, and 4 typical floors, 1st Community, New Cairo City, March, 2011.*
18) *Structural Analysis and Design of Residential Building with area of 550 m^2 consisting of Basement, Ground, and 3 typical floors, El Sherouqe City, Cairo, November, 2010.*
19) *Structural Analysis and Design of Residential Building with area of 520 m^2 consisting of Basement, Ground, and 5 typical floors, El Sherouqe City, Cairo, November, 2010.*
20) *Structural Analysis and Design of Residential Building with area of 870 m^2 consisting of Basement, Ground, and 3 typical floors, 5th Community, New Cairo City, October, 2010.*
21) *Structural Analysis and Design of Residential Building with area of 390 m^2 consisting of Basement, Ground, and 3 typical floors, El Sheikh Zayed City, Cairo, October, 2010.*
22) *Structural Analysis and Design of Covered Swimming Pool for SAMA Language School with area of 280 m^2 consisting of Frames 14 m span, El Maadi, Cairo, October, 2010.*
23) *Structural Analysis and Design of Administration and Commercial Mall with area of 2400 m^2 consisting of 2 Basements, Ground, and 6 typical floors, 90th Street, 5th Community, New Cairo City, September, 2010.*
24) *Structural Analysis and Design of Residential Building with area of 630 m^2 consisting of Basement, Ground, and 5 typical floors, El Sherouqe City, Cairo, August, 2010.*
25) *Structural Analysis and Design of Residential Villa with area of 280 m^2 consisting of Ground and First floors, Al Ain El Sokhna, June, 2010.*
26) *Structural Analysis and Design of Residential Villa with area of 870 m^2 consisting of Basement, Ground, and 2 typical floors, 1st Community, New Cairo City, June, 2010.*
27) *Structural Analysis and Design of Residential Building with area of 470 m^2 consisting of Basement, Ground, and 4 typical floors, 5th Community, New Cairo City, May, 2010.*
28) *Structural Analysis and Design of Residential Building with area of 580 m^2 consisting of Basement, Ground, and 4 typical floors, El Sherouqe City, Cairo, May, 2010.*

29) *Structural Analysis and Design of Administration Building of warehouse with area of 490 m^2 consisting of Basement, Ground, and First floors, 5th Community, New Cairo City, April, 2010.*

30) *Structural Analysis and Design of Residential Building with area of 390 m^2 consisting of Basement, Ground, and 6 typical floors, El Sherouqe City, Cairo, December, 2009.*

31) *Structural Analysis and Design of Tigra Factory for Paints including Production Unit with area of 1540 m^2 consisting of Mezzanine, Ground, and First floors, 2 Warehouse Buildings with areas of 665 and 450 m^2 consisting of Mezzanine, Ground, First, and Second floors (3 floors Concrete Frames), and Administration Building with area of 350 m^2 consisting of Ground, and 3 Typical floors, El Sadat City, August, 2009.*

32) *Structural Analysis and Design of Residential Building with area of 340 m^2 consisting of Basement, Ground, and 4 typical floors, 5th Community, New Cairo City, July, 2009.*

33) *Structural Analysis and Design of Residential Villa with area of 520 m^2 consisting of Basement, Ground, and 2 typical floors, 5th Community, New Cairo City, June, 2009.*

34) *Structural Analysis and Design of Residential Building with area of 200 m^2 consisting of Basement, Ground, and 6 typical floors, Al Mokatam, Cairo, June, 2009.*

35) *Structural Analysis and Design of Training Center Building with area of 760 m^2, for the Ministry of Interior, consisting of Ground and 2 floors, Cairo City, April, 2009.*

36) *Structural Analysis and Design of Beni Suef Prison for the Ministry of Interior including Prison Cells Building with area of 820 m^2 consisting of Ground floor only, Administration Building with area of 600 m^2 consisting of Mezzanine and Ground floors, the Security Tower, and the Prison Fence, Beni Suef City, March, 2009.*

37) *Structural Analysis and Design of Warehouse Building with area of 890 m^2, for Horsemen Training Center, the Ministry of Interior, the Warehouse consisting of Mezzanine and Ground floors only, Cairo City, February, 2009.*

38) *Structural Analysis and Design of Warehouse Building with area of 225 m^2, for Horsemen Training Center, the Ministry of Interior, the Warehouse consisting of one floor Reinforced Concrete Frames, Cairo City, February, 2009.*

39) *Structural Analysis and Design and Quality Control Management of Reinforced Concrete Skeleton Construction of Bedaya International School including an Educational Building with area of 3800 m^2 including Swimming Pool at Roof, and Administration Building with area of 1120 m^2 including offices, swimming pool, theatre, and Cafeteria, Structural System of Administration Building consisting of double Height Concrete Frames, all buildings are consisting of Basement, Ground, and 2 typical floors, 5th Community, New Cairo City, February, 2009.*

40) *Structural Design and Quality Control Management of Reinforced Concrete Skeleton Construction of Residential Building with area of 800 m^2 consisting of Basement, Ground, and 2 typical floors, El Sheikh Zayed City, Cairo, December, 2008.*
41) *Structural Analysis and Design of Masjed Al Wastani with built area of 250 m^2 consisting of two floor, Kafr Bouline, Kom Hamada, Behaira, December, 2008.*
42) *Structural Analysis and Design of Residential Building with built area of 495 m^2 consisting of Basement, Ground, and 4 typical floors, 5th Community, New Cairo City, October, 2008.*
43) *Structural Analysis and Design of Residential Villa with area of 275 m^2 consisting of Basement, Ground, and 2 typical floors, 6^{th} October City, Cairo, August, 2008.*
44) *Structural Analysis and Design and Quality Control Management of Reinforced Concrete Skeleton Construction of Villa with area of 220 m^2 consisting of Basement, Ground, and 2 typical floors, El Sheikh Zayed City, Cairo, August, 2008.*
45) *Structural Analysis and Design of Residential Building with built area of 360 m^2 consisting of Basement, Ground, and 4 typical floors, 5th Community, New Cairo City, August, 2008.*
46) *Structural Analysis and Design of Residential Building with built area of 540 m^2 consisting of Basement, Ground, and 3 typical floors, El Sherouqe City, Cairo, August, 2008.*
47) *Structural Analysis and Design of Residential Villa with area of 375 m^2 consisting of Basement, Ground, and 2 typical floors, El Sherouqe City, Cairo, August, 2008.*
48) *Structural Analysis and Design of Residential Villa with area of 320 m^2 consisting of Basement, Ground, and 4 typical floors, El Sherouqe City, Cairo, February, 2008.*
49) *Structural Analysis and Design of Residential Building with built area of 400 m^2 consisting of Basement, Ground, and 4 typical floors, 5th Community, New Cairo City, January, 2008.*
50) *Structural Analysis and Design of Residential Building with built area of 515 m^2 consisting of Basement, Ground, and 4 typical floors, El Sherouqe City, Cairo, , January, 2008.*
51) *Structural Design and Construction Supervision of Residential Building with built area of 525 m^2 consisting of Basement, Ground, and 5 typical floors, El Sherouqe City, Cairo, December, 2007.*
52) *Structural Analysis and Design of Residential Building with built area of 175 m^2 consisting of Basement, Ground, and 4 typical floors, El Sherouqe City, Cairo, December, 2007.*

53) *Structural Analysis and Design of Residential Building with built area of 440 m^2 consisting of Basement, Ground, and 5 typical floors, 5th Community, New Cairo City, September, 2007.*

54) *Structural Analysis and Design of Masjed Al Hamd with area of 180 m^2 consisting of two floor, Al Hassah Village, Touhk, Benha, Dakahlya, December, September, 2007.*

55) *Structural Analysis and Design of Residential Building with built area of 530 m^2 consisting of Basement, Ground, and 3 typical floors, Dream Land, 6th October City, Cairo, September, 2007.*

56) *Structural Design and Quality Control Management of Reinforced Concrete Skeleton Construction of Residential Villa with area of 355 m^2 consisting of Basement, Ground, and 2 typical floors, 5th Community, New Cairo City, August, 2007.*

57) *Structural Analysis and Design of Residential Building with built area of 520 m^2 consisting of Basement, Ground, and 4 typical floors, Dream Land, 6th October City, Cairo, July, 2007.*

58) *Structural Analysis and Design of Residential Villa with area of 310 m^2 consisting of Basement, Ground, and 2 typical floors, El Sherouqe City, Cairo, July, 2007.*

59) *Structural Analysis and Design of Residential Villa with area of 230 m^2 consisting of Basement, Ground, and 2 typical floors, El Sherouqe City, Cairo, July, 2007.*

60) *Structural Analysis and Design of Residential Villa with area of 360 m^2 consisting of Basement, Ground, and 4 typical floors, 5th Community, New Cairo City, May, 2007.*

61) *Structural Analysis and Design of English type Villa with area of 180 m^2 consisting of Ground floor only, Morog Al Nakhil Resort, Al Rashrash Valley, Cairo, May, 2007.*

62) *Structural Analysis and Design of Morog Al Nakhil Resort Gate with area of 320 m^2 consisting of Ground floor only including two towers, Morog Al Nakhil Resort, Al Rashrash Valley, Cairo, April, 2007.*

63) *Structural Analysis and Design of SEBA Factory for Light Industries with area of 975 m^2 consisting of Ground, Mezzanine, and 2 typical floors, 6th October City, Cairo, March, 2007.*

64) *Structural Analysis and Design of Residential Villa with area of 520 m^2 consisting of Basement, Ground, and 2 typical floors, 5th Community, New Cairo City, February, 2007.*

65) *Structural Analysis and Design of Residential Building with built area of 190 m^2 consisting of Basement, Ground, and 4 typical floors, Badr City, Cairo, December, 2006.*

66) *Structural Analysis and Design of Al Rowad School Building with area of 1680 m^2 consisting of Basement, Ground, and 4 typical floors, 8th District, Nasr City, Cairo, November, 2006.*

67) *Structural Analysis and Design of Residential Villa with area of 235 m^2 consisting of Basement, Ground, and 3 typical floors, El Sheikh Zayed City, Cairo, November, 2006.*

68) *Structural Analysis and Design and Quality Control Management of Reinforced Concrete Skeleton Construction of the Egyptian British International School (EBIS) including two Educational Buildings with area of 1400 m^2, two Educational Buildings with area of 2800 m^2 with Swimming Pool at Roof, and Administration Building with area of 1800 m^2 including offices, two swimming pools, theatre, and squash courts, Structural System of Administration Building consisting of double Height Concrete Frames, all buildings are consisting of Basement, Ground, and 2 typical floors, 5th Community, New Cairo City, May, 2006.*

69) *Structural Analysis and Design of Residential Villa with area of 260 m^2 consisting of Basement, Ground, and 2 typical floors, Dream Land, 6th October City, Cairo, May, 2006.*

70) *Structural Analysis and Design of Residential Villa with area of 230 m^2 consisting of Basement, Ground, and 2 typical floors, Dream Land, 6th October City, Cairo, May, 2006.*

71) *Structural Analysis and Design of Residential Building with built area of 430 m^2 consisting of Basement, Ground, and 4 typical floors, Dream Land, 6th October City, Cairo, April, 2006.*

72) *Structural Analysis and Design of Residential Building with built area of 445 m^2 consisting of Basement, Ground, and 4 typical floors, Dream Land, 6th October City, Cairo, March, 2006.*

73) *Structural Analysis and Design of Residential Building with built area of 310 m^2 consisting of Basement, Ground, and 5 typical floors, 6th Otober City, Cairo, March, 2006.*

74) *Structural Analysis and Design of Residential Building with built area of 270 m^2 consisting of Basement, Ground, and 5 typical floors, 6th October City, Cairo, February, 2006.*

75) *Structural Analysis and Design of High Rise Residential Building with area of 350 m^2 consisting of Basement, Ground, Mezzanine, and 11 typical floors, Dokki, Cairo, November, 2005.*

76) *Structural Analysis and Design of Residential Villa with area of 350 m^2 consisting of Basement, Ground, and 2 typical floors, El Sherouqe City, Cairo, May, 2005.*

77) *Structural Analysis and Design of Residential Building with built area of 470 m^2 consisting of Basement, Ground, and 5 typical floors, 5th Community, New Cairo City, February, 2005.*

78) *Structural Analysis and Design of Residential Villa with area of 315 m^2 consisting of Basement, Ground, and 2 typical floors, 5th Community, New Cairo City, February, 2005.*
79) *Structural Analysis and Design of Residential Villa with area of 315 m^2 consisting of Basement, Ground, and 4 typical floors, 5th Community, New Cairo City, February, 2005.*
80) *Structural Analysis and Design of Residential Building with built area of 276 m^2 consisting of Basement, Ground, and 4 typical floors, 5th Community, New Cairo City, 2005.*
81) *Structural Analysis and Design of Residential Building with built area of 165 m^2 consisting of Basement, Ground, and 4 typical floors, 5th Community, New Cairo City, November, 2004.*
82) *Structural Analysis and Design of Residential Building with built area of 410 m^2 consisting of Basement, Ground, and 5 typical floors, 5th Community, New Cairo City, October, 2004.*
83) *Structural Analysis and Design of Residential Building with built area of 395 m^2 consisting of Basement, Ground, and 5 typical floors, 5th Community, New Cairo City, September, 2004.*
84) *Structural Analysis and Design of the 3rd Army Panorama for the Ministry of Defense with area of 470 m^2 consisting of double floor pyramid and double curved shells, Matla, East of Suez Canal, Suez, September, 2004.*
85) *Structural Analysis and Design of Residential Building with built area of 410 m^2 consisting of Basement, Ground, and 5 typical floors, 5th Community, New Cairo City, January, 2004.*
86) *Structural Analysis and Design of High Rise Residential Building with area of 248 m^2 consisting of Basement, Ground, and 8 typical floors, 6th October City, Cairo, October, 2003.*
87) *Structural Analysis and Design of Residential Building with built area of 154 m^2 consisting of Ground and 7 typical floors, Maadi, Cairo, 2002.*
88) *Structural Analysis and Design of Residential Building with built area of 157 m^2 consisting of Ground and 7 typical floors, Maadi, Cairo, 2002.*
89) *Structural Analysis and Design of Modern Schools of Egypt 2000 (MSE 2000) including two main building with areas of 3800 m^2 and 1725 m^2 consisting of Basement, Ground, and two typical floors, in addition to Horse Stable, Squash Court, and two Swimming Pools, 5th Community, New Cairo City, 2000.*

90) *Structural Analysis and Design of Residential Building with built area of 190 m^2 consisting of Basement, Ground, and 4 typical floors, 6th October City, Cairo, August, 1999.*

91) *Structural Analysis and Design of KALEK Factory for Food Industry with area of 2250 m^2 consisting of Ground, and First floor, the factory court consisting of two vents concrete frames, Badr City, Cairo, 1999.*

92) *Structural Analysis and Design of Residential Villa with area of 165 m^2 consisting of Basement, Ground, and 2 typical floors, El Sadat City, Cairo, 1999.*

93) *Structural Analysis and Design of Textile Factory with area of 2750 m^2 consisting of Ground, and First floor, the factory court consisting of steel frames and the administration parts consisting of concrete elements, El Obour City, Cairo, 1999.*

94) *Structural Analysis and Design of Safa Resort which consisting of two types of Villas with areas of 300 m^2 and 320 m^2 consisting of two floors, Arab Engineering Association, Belbais Road, Sharqyia, 1998.*

95) *Structural Analysis and Design of small Villa with area of 130 m^2 consisting of two floors, Belbais Road, Sharqyia, 1997.*

96) *Structural Analysis and Design of Large Villa with area of 2500 m^2 consisting of Ground and First floors, Mansuria, Giza, 1997.*

97) *Structural Analysis and Design of High Rise Residential Building with area of 290 m^2 consisting of Basement, Ground, and 11 typical floors, Nasr City, Cairo, 1997.*

98) *Structural Analysis and Design of Gymnasium Hall for the Ministry of Defense with area of 250 m^2 consisting of one floor Frames, Dahshour, Cairo, 1997.*

99) *Structural Analysis and Design of Gymnasium Hall for the Ministry of Defense with area of 124 m^2 consisting of one floor Frames, Haykesteb, Cairo, 1997.*

100) *Structural Analysis and Design of Historical Hall for the Ministry of Defense with area of 275 m^2 consisting of one floor Frames, Haykesteb, Cairo, 1997.*

101) *Structural Analysis and Design of Masjed Al Rahama with built area of 345 m^2 consisting of two floor, Beba, Beni Suef, 1997.*

102) *Structural Analysis and Design of Residential Building with built area of 340 m^2 consisting of Ground, Mezzanine, and three typical floors, Helwan, Cairo, 1997.*

103) *Structural Analysis and Design of Tiles Factory with area of 1200 m^2 consisting of Ground, and First floor, the factory court consisting of steel frames and the administration parts consisting of concrete elements, 6th October City, Cairo, 1997.*

104) *Structural Analysis and Design of Solar Energy Station with built area of 48 m^2 consisting of two floor, Ein El Sokhna, Suez, 1997.*

105) ***Structural Analysis and Design Engineer in NASR Consultants (Dr. Mahmoud Nasr and Associates), from 1996 to 1998 :***
   - *Structural Design of **CONRAD CAIRO** Hotel.*
   - *Structural Design of several Power Stations (Qantara, Sharm EL Sheikh, Saloum, Toshka…).*
   - *Reviewing of several projects for Insurance Group.*

106) ***Structural Analysis and Design Engineer in MISR Consultants (Dr. Mokhtar Sedik), from 1995 to 1996 :***
   - *Structural Design of several Residential Buildings, Villas, Resorts, and **PAC** Factory.*

CONFERENCES AND SEMINARS:

1) ***Innotrans*** *International Trade Fair for Transport Technology, Berlin, September 2016.*
2) ***Innotrans*** *International Trade Fair for Transport Technology, Berlin, September 2014.*
3) ***Innotrans*** *International Trade Fair for Transport Technology, Berlin, September 2012.*
4) *Arab Transport Conference, Cairo, April 2010.*
5) *Workshop on "**partnership between the Public and Private Sectors in transportation infrastructure projects with a focus on Railway Projects**", sponsored by the Arab Administrative Development Organization - the League of Arab States, Sharm El Sheikh, March 2010.*
6) *The 13th Scientific Seminar of the Arab Railway Union, and participating with paper titled "**Rescheduling of Trains on Double Track Railway Lines in Case of One Track Disturbance to Minimize Total Delay Costs**", Amman, Nov. 2008.*
7) *The Second Conference of e-Learning Applications in Egypt, "Knowledge Beyond Time and Place", Cairo, Jan. 2004.*
8) *The Second International Internet Education Conference (IIEC), Cairo, Oct. 2003.*
9) *The First National Conference of Transport in Egypt, Present Issues and Future Directions, Cairo, Feb. 2002.*

OTHER ACTIVITIES:

- *Member of the Egyptian Syndicate of Engineers (ESE) Since 1995.*
- *Member of Civil Engineering Researches and Studies Center from 2002 till now.*
- *Member of the Technical Committee formed of the professors of the Faculty of Engineering, Cairo University as requested by the public prosecution to investigate the military recruitment train accident in Badrashin dated 14/1/2013 in the case no. 466 for the year 2013.*
- *Board Member of Egyptian Railways for Track Renewal and Maintenance Company from April 2013 to April 2014.*
- *Member of the Technical Committee formed of the professors of the Faculty of Engineering, Cairo University as requested by the public prosecution to investigate the passenger train no. 80 accident in Ayat dated 7/9/2016 in the case no. 16677 for the year 2016.*