



Dr. Hisham Arafat Mahdi Director Bridges Department

Qualifications

Ph.D., Ain Shams University, Cairo, Egypt 1998
M.Sc., Ain Shams University, Cairo, Egypt 1991
Scholarship from DAAD during the assignments of the PhD thesis at Institute (fuer Grund-Bau und Boeden Mechanic) Braunschweig, West Germany 1993 – 1996
B.Sc, Ain Shams University, Cairo, Egypt 1985

Experience:

Hisham Arafat has over 25 years experience in transport structures design particularly bridges. Since 2007 he is a member of IABSE (International association of Bridges and Structural Engineering), and also a member of the scientific committee - new Egyptian Code for Bridges, overpasses and underpasses

He published more than 25 papers in International journals and conferences associated to geotechnical, structural and bridges issues. He has also supervised a number of M.Sc. and PhD theses on the subject

Employment Record

Professor and Head of Structural Engineering and Construction Management Department-Faculty of Engineering and Technology-FUE, Future University in Egypt 2008 up to date
Senior advisor for Bridges and Tunnels for Ministry of Transportation, Egypt 2010-2011
Consultant for General Authority for Roads and Bridges, Ministry of Transportation
Head of Building and Construction Department, Faculty of Engineering, Sixth of October University 2007-2008
Assistant Professor of Structural Engineering, Faculty of Engineering, Sixth of October University 2002

Sample of Projects/Studies

Conducting 3-D and 2-D finite element geotechnical and structural analysis for bridges, jetties, tanks and tunnels

Carried out the geotechnical/and full structural design of several infrastructures as Senior of the Engineering team as prestigious Oil Tanks Projects, prodigious Bridges and Viaducts as Aswan Cable stayed bridge over the Nile, in addition to several pre-stressed Nile bridges constructed by different techniques from pre-cast using launching girder to deck pushing systems, Mobile scaffolding systems and cantilever carriage process as implemented in Farskur, Assiut, Sohag,

Malawi, El-Wasta, Tema, Bani-Mazar, Kalabsha Nile bridges and Suez-Canal Bridge. Moreover, the design of all steel and composite spans of these bridges at the connections with the railway lines and the design and outlining the method of statement of the cofferdams related to the foundations located under the river bed of the Nile.

Geometric planning and structural design of new constructed highways and road corridors as Zagazig-Senbelaween, Defra-Kafr El-Zayat, Tanta-Mahala and Zagazig-Mit-Ghamr than involved the construction of about 60 bridges between surface and elevated crossings

Structural design of Ring road, Terminal 3, Cairo International Airport, Structural design, Q.C/Q.A and management of the extension of Apron area, Sharm-El-Sheikh International airport and full structural design and supervision for Grain Silo Complexes at Fayoum, El-Minya, Tanta, Assiut, Zagazig and Qena

Consultant of El-Taef Municipality – KSA and design of eight prestressed concrete bridges and three underpasses.

Planning and supervision of phase 2 and 3 of line 3 of Metro-line project and preparation of the studies of line 4 (2010)

