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## EDUCATION:

Ph.D. Civil Engineering, Syracuse University, Syracuse, New York, 1985  
M.S. Civil Engineering, Syracuse University, Syracuse, New York, 1981  
B.Sc. Civil Engineering, Faculty of Engineering, Ain-Shams University, Cairo, Egypt, 1976

## PROFESSIONAL PRACTICE:

Registered Professional Civil Engineer (PE), Louisiana

**Vice President & Chief Engineer (Sep 2007 – present):** Aradaman & Associates, Inc.,  
Louisiana (Offices at Alexandria, Baton Rouge, Monroe, New Orleans & Shreveport)

**Senior Geotechnical Engineer (May 1997- Sep 2007):** Gore Engineering, Inc., Metairie, LA.

Duties: Prepare cost estimate proposals for residential, commercial and industrial projects in –  
Contact clients & attend meetings - Schedule field investigations - Hire & manage drilling  
crews & lab technicians - Assign laboratory tests - Perform geotechnical engineering  
analyses - Develop foundation recommendations - Field inspections & trouble shooting -  
Prepare geotechnical reports

Sample Projects: Foundation recommendations for residential, industrial & commercial  
buildings (shallow & deep foundations) - New Orleans International Airport runways &  
taxiways rehabilitation - Water/wastewater mains & treatment plants - New Orleans  
Convention Center - Piers & wharfs - Hurricane protection levees & floodwalls – Drainage  
pump stations, canals, flumes and culverts - Geosynthetics - Canal Street streetcar line -  
LNG facilities - Cellular towers - Concrete and asphalt pavement - Bridge foundations -  
Dredging & coastal restoration projects - Settlement & preload studies - Foundation distress  
investigations - Seepage analyses - Industrial bulkheads - Excavation cofferdams - Vibration  
analyses of industrial facilities

**Professor, Associate Professor & Assistant Professor (Jul 1985 - Jun 2007):** Dept. of Civil and Environmental Eng., Tulane University, New Orleans, LA

**Adjunct Professor (2000-present):** Department of Environmental Health Sciences, School of Public Health and Tropical Medicine, Tulane University Medical Center, New Orleans, LA

Duties: Acting department chair - Teach undergraduate and graduate classes in the areas of geotechnical engineering, foundations and construction management - Direct and conduct of research studies (45 research projects with individual budgets of up to \$750,000) - Serve on & chair departmental, school and university committees - Develop research proposals - Conduct numerical, laboratory and field studies - Prepare technical reports (50) - Publish technical papers (83) - Give formal presentations in national and international conferences (45) - Organize & teach workshops (10) - Funding agencies include (USACE, LA DOTD, LA DEQ, DOE, NSF, LTRC & industrial firms) - Review proposals (NSF, U.S. State Dept., USEPA, U.S. Dept. of Education & Fulbright International Program) - Review technical papers (ASCE, TRB, ACI, International Journal of Solids and Structures & Journal of Hazardous Materials) - Member of organizing committees and technical reviewer for national and international conferences

Research Areas: Laboratory & field testing - Pile foundations - Embankments & earth retaining structures - Geosynthetics - Soil improvement - Numerical modeling of soil/structure interaction problems - GIS - Trenchless pipeline rehabilitation - Recycling of industrial and municipal wastes - Artificial intelligence

**Structural Engineer (Jul 1976-Aug 1979):** General Department of Engineering Consulting and Technical Services, Arab Contractors, Osman Ahmed Osman & Co., Cairo, Egypt

Duties: Design commercial, public and industrial facilities throughout Egypt - Prepare construction drawings (concrete, steel & foundations) - Meet clients - Oversee field construction - Trouble shooting of construction problems

Sample Projects: Various buildings at the universities of Tanta, Asyout and Zagazig - Osman Ahmed Osman Soccer Stadium in Cairo (60,000 capacity) - Segments of King Faisal elevated roadway in Giza - Steel roadway bridges over the first subway metro line in Cairo - The Arab Contractors Building in Tanta (10 story) - Restoration of historic structures in Cairo - Police headquarters building in Aswan - Textile factory in Zagazig - Steel railroad bridge on the Alexandria/Cairo railroad line

## **AWARDS:**

Outstanding Teacher of the Year, Tulane University ASCE Chapter, 2005  
Certificate of Recognition, First International Conference on Intelligent Computing and Information Systems (ICICIS 2002), Cairo, Egypt, 2002  
Engineering Faculty Professionalism Award, Louisiana Engineering Foundation, 2001  
K.B. Woods Award, Best Paper of the Year in the Area of Design and Construction, National Research Council/Transportation Research Board (NRC/TRB), 1991  
U.S. Dept. of Education, FIPSE program, Certificate of Recognition, 1989

IGS-DR BB RAI-SN Gupta Biennial Prize, Best Paper of the Year in the Area of Earth Retaining Structures including Interaction and Instrumentation, Indian Geotechnical Society, 1987

#### **AFFILIATIONS:**

Member, American Society of Civil Engineers (ASCE):

Director, Louisiana Section, 2002-03

President, President Elect, Vice-President, Treasurer, Secretary, New Orleans Branch, 1997-2002

Member, ASCE Review Committee, City of New Orleans Official Building Code, 2000-01

Member, Steering Committee - Geotechnical Committee, New Orleans Branch, 1990-present

Member (control group), ASCE National Committee on Soil Dynamics, 1990-96

Member, ASCE National Committee on Dam Safety, 2005-present

Member, Water Environment Federation (WEF)

Member, Louisiana Water Pollution Control Association

Member, Egyptian Syndicate of Engineers (ESE)

Member, U.S. National Society of the International Society of Soil Mechanics and Foundation Engineering (USNS/ISSMFE)

Member, National Engineering Society, TAU BETA PI

Member, St. Charles Parish of Louisiana QBS Advisory Committee, 2001-2005

Member, Geotechnical Advisory Committee, Louisiana Transportation Center, 2004-2005