

## **MAMDOUH H. NASR**

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USA

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### **PROFESSIONAL PROFILE**

- Managed the operation and maintenance of geotechnical and civil Projects
- Designed and supervised the construction of retaining structures using “REWARD,” a program designed by M/S. British steel
- Estimated the project value and the project required execution time together with the manpower required for execution
- Managed the geotechnical construction including piles, sheet piles, diaphragm walls, Burlin walls, anchors and grouting
- Supervised the execution of safety instructions and development of safety management processes
- Familiar with SIGMA/W – SEEP/W- SLOPE/W- CTRAN/W- DYNA5 geotechnical software programs

### **PROFESSIONAL EXPERIENCE**

#### **Senior Project Manager / Geotechnical Engineer**

Advanced Geosolutions Inc.- Los Angeles, CA, USA

March 2007 ( Current)

- Design-Build geotechnical contractor specializing in alternative foundation systems using soil improvement methodologies and limited access sheet pile installation.
- Seismic mitigation analysis and designs using Stone columns , Vibro compaction, Soil grouting and deep soil mixing

#### **Geotechnical Engineer/ Engineering Manager**

Almita manufacturing and installation Ltd.- Ponoka, Alberta

Jan 2004 till Feb. 2007

- Design and review of the installation of Screw Piles. The design includes the Pile foundation, retaining walls, slope stability, soil nailing and concrete and driven piles for the following project (not limited to):
  - 1) Suncor 117200494 - 260kV Line. This included the design of 134 Transmission Towers- Engineer: Stantec, Contractor: Valard construction
  - 2) CNRL 260 kV Transmission Tower- 50 Towers- Engineer: Black and Veatch- Contractor: Valard
  - 3) ALTA Link- Christina Lake to Meg transmission towers- over 104 Towers- Engineer: SNC Lavalin
  - 4) Syncrude 240 kV Towers- 55 Towers- Engineer: Colt Engineering and Stantec- Contractor: Casca Electric and Midlite Construction
  - 5) The Retrofit of failing towers on old underdesigned foundations for Manitoba Hydro
  - 6) The Design of pile foundation for Monopole towers for Hydro one- Toronto
  - 7) The retrofit for over 600 Towers for Hydro Quebec

- 8) Design of numerous projects for telecommunication towers for WesTower, Telus and Rogers in Alberta, Sk, and Manitoba
- 9) Design of the pile rack foundation for Encana- Foster Creek ( Oil and Gas)- Engineer: Vista Projects and IMV and contractor: Varies
- 10) Design of pipe rack foundation for Shell Canada in Imperial Oil- Engineer: Colt and Contractor: Flint
- 11) Design of the foundation for mooring dolphins and off shore structures in Barbados- Pile Load Test to verify my designs will be done end of this month
- 12) All geotechnical design works of retaining wall for MSE walls for A.B. Walls in Alberta, Saskatchewan and Manitoba in Canada.

**Director and Technical Manager**

Egyptian Foundation Co. – Yemen and Egypt.

1998- 2001

Estimated, Directed and supervised the operation and maintenance of foundation projects:

- Execution of 2200 bored piles for saleef port-Yemen
- Design, execution and maintenance of the side support system, anchored Burlin wall, to allow for 9.0m excavation for the Arab league building in Cairo Egypt
- Design, execution and maintenance of the side support system, bentonite and concrete secant pile wall, to allow for 7.0m excavations below water table in Cairo Egypt
- Execution of different projects involves piling works in Egypt

**Technical and Projects Manager**

Concrete Co. For Construction -Egypt

Jan./1997 – Dec./1997

Designed, Estimated, Directed and Supervised the construction of:

- An anchored Burlin wall system to allow for 13.50m excavation
- A reinforced jet grouting system to allow for 9.0m excavations adjacent to old building
- An anchored reinforced concrete pile wall to allow for excavation to 8.0m in front of a historical wall
- Low pressure grouting to support the soil below a 1000 years old wall

**Site Manager and Project Manager**

Archirodon Construction Co.-Cyprus, Saudi Arabia and Emirates

1992 –1996

Estimated, Directed and supervised the construction of:

- 1036 driven piles for the extension of limassol port in Cyprus
- 200 piles for the cable stayed bridge in Riyadh in Saudi Arabia
- 279 skin and base grouted piles Rabigh jetty in Saudi Arabia
- The sheet piles to allow for 14.0 m dredging zayed port in UAE

- The vibro compaction for soil improvement using dredged materials in UAE
- The driven piles for Dubai creek and bridges in UAE
- The single, double and triple jet grouting systems to work as a plug in Yanboo-Saudi Arabia
- The execution of steel shutters, steel reinforcement and concrete of reinforced concrete bridge slab in Dubai-Emirates

### **Site Engineer and Site Manager**

Bauer Company for Deep Foundation (Bauer Tief Bau GmbH)-Saudi Arabia and Germany.

1988- 1992

Directed and supervised the operation and maintenance of:

- The execution of the biggest diaphragm wall project in the world “Car Park Medina” Medina-Saudi Arabia
- The execution of 1300 bentonite jacketed concrete piles for the construction of the building of the car park medina-Saudi Arabia
- The execution of base and skin and base grouted bored piles in different projects in Saudi Arabia
- The execution of anchored piles and anchoring systems in different projects in Schrobenhausen and Folda- Germany

### **Site Engineer**

Soiltech vibra -Egypt.

1986- 1988

Supervise and Execute different geotechnical Projects:

- The execution of small projects involves piling, vibro compaction and reinforced concrete foundations

### **EDUCATION**

- PhD Student - University of Alberta
- Master of Engineering in geotechnical engineering - University of Calgary Dec. 2003
- Bachelor of Science in Information Technology – University of Phoenix. Oct. 2003
- Bachelor of Science in Civil Engineering. 1986

### **Professional Organizations**

- P.Eng (Professional Engineer in the province of Alberta, Apegga )
- Member of the Canadian society for geotechnical Engineers
- Member of the American Society for Civil Engineers
- Member of DFI (Deep foundation Institute).
- Member of the North American Society for Trenchless Technology