

## **MOHAMED IBRAHEEM H. RAMADAN, Ph.D.**

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### **Educational Background**

- 2011      **Doctor of Philosophy in Civil Engineering**  
*Memorial University of Newfoundland, CANADA.*  
Major: *Offshore Geotechnical Engineering* (GPA 4.0).  
Thesis Title: “*Physical and Numerical Modeling of Offshore Anchor Piles under Mooring Forces*”
- 2006      **Master of Applied Science in Civil Engineering**  
*Assiut University, Egypt*  
Major: *Geotechnical Engineering* (GPA 4.0)  
Thesis Title: “*Bearing Capacity and Shape of Failure of Layered Soils*”
- 2002      **Bachelor of Civil Engineering**  
*Assiut University, Egypt*  
Major: Civil Engineering (Grade: 89.5%- Distinction with Honor)  
Graduation Project: “*Foundation Engineering*”, Grade: Distinction.

### **Professional Associations & Committee Membership**

- Member of the Canadian Geotechnical Society (CGS).
- Member of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE).
- Member of the Egyptian Geotechnical Society (EGS).
- Member of the Syndicate of Egyptian Engineers.

### **Professional Experience**

**Assistant Professor** (2012 – Present): **Faculty of Engineering, Assiut University, Egypt.**

- Teaching undergraduate Structure and Geotechnical engineering courses.
- Teaching graduate Geotechnical courses.
- Supervising graduate students in Geotechnical engineering research area.

**Quality Manager** (March 2014 – till now): **Soil Mechanics and Foundations Laboratory, Faculty of Engineering, Assiut University, Assiut, Egypt.**[The lab is going to apply for accreditation according to **ISO 17025**]

**Teaching Assistant:**

**Memorial University, Canada.** (PhD degree) - (2007 – 2011):

- Teaching undergraduate Structure and Geotechnical engineering tutorials.
- Demonstrating undergraduate Geotechnical laboratory tests.

**Assiut University, Egypt.** (Master degree) - (2002 – 2006):

- Teaching undergraduate Structure and Geotechnical engineering tutorials.
- Demonstrating undergraduate Geotechnical laboratory tests.

**Research Assistant:**

**Memorial University, Canada - (2007 – 2011):**

- Design 1-g and centrifuge geotechnical tests.
- Numerical analysis in Structural and Geotechnical engineering.
- Geophysical applications in civil engineering.
- Geomechanics laboratory tests (Soil and Rock mechanics).

**Assiut University, Egypt - (2003 – 2006):**

- Design 1-g geotechnical tests.
- Numerical analysis in Geotechnical engineering.

**Design Engineer (2002 – 2006): Consulting Engineering Office, Assiut, Egypt.**

- Conducted technical analysis of structural projects.
- Conducted technical analysis of Geotechnical investigations.

**Consultant Engineer (2011 – present):**

**Consulting Engineering Center, Faculty of Engineering, Assiut University.**

**Consulting Engineering Office, Assiut, Egypt.**

- Managed geotechnical investigations and prepared geotechnical reports for various facilities, structures and developments.
- Prepared a variety of foundation recommendations in problematic soil.
- Performed geotechnical design for several excavation supporting systems for high-rise building construction or pipe lines trench installation.
- Performed geotechnical design for several dewatering systems.
- Performed Geotechnical field tests and prepared the reports (i.e. Pile loading test, Plate loading test, Soil compaction check tests).
- Investigated deterioration problems of high-rise buildings and developed an efficient rehabilitation system.
- Designed different R.C. and steel structures (i.e. High-rise buildings, elevated and underground water tanks, bridges, retaining structures...)

**Skills**

- Numerical analysis, technical computing, and engineering design.
- Finite element analyses of structural and geotechnical systems (SAP2000, ETABS, PLAXIS, ABAQUS, PROKON and GEO-SLOPE).
- Design of Geotechnical experiments; both centrifuge tests and 1-g tests.
- Used Computer Aided Design packages, e.g. AutoCAD.
- Design of geotechnical structures, buildings, bridges (Steel and RC), water treatment stations and other infrastructure work.

## Scholarships and Awards

- 2009 – 2010 Hatcher Memorial Scholarship, Memorial University, NL, Canada.  
2007 – 2010 Ph.D scholarship Memorial University, NL, Canada.  
2007 Ph.D scholarship offer from Wollongong University, Australia.  
2002 Faculty of Engineering Student Union Award (at Assiut University, Egypt) for my graduation with **Distinction with Honor and Ranked 1<sup>st</sup> of Class 2002**  
2002 Syndicate of Egyptian Engineers Award for my graduation with **Distinction Honor and Ranked 1<sup>st</sup> of Class 2002**  
2000 October 6<sup>th</sup> University Award (Cairo, Egypt) for my **Intelligential Scientific Progress**  
1999 Faculty of Engineering Student Union Award (at Assiut University, Egypt) for my **Scientific Activity**  
1997 – 2002 Annual Faculty of Engineering, Assiut University Scholarship for **the Excellent Undergraduate Students**

## Publications

### Journal papers

- Abdel Aziz, E. M., Hussien, M. H., and **Ramadan, M. I.**, 2006, “Bearing Capacity of Strip Footing on Two-Layer Soils”, Journal of Soil Mechanics and Foundations, the Egyptian Geotechnical Society, Vol. 17, No. 1.
- Ramadan, M. I.** and Butt, S. D. and Popescu, R., 2013, “Offshore Anchor Piles under Mooring Forces: Numerical Modeling”, Canadian Geotechnical Journal, 50(2): 189-199, 10.1139/cgj-2012-0250
- Ramadan, M. I.** and Butt, S. D. and Popescu, R., 2013, “Offshore Anchor Piles under Mooring Forces: Centrifuge Modeling”, Canadian Geotechnical Journal, 50(4): 373-381, 10.1139/cgj-2012-0250

### Conference papers

- Ramadan, M. I.**, Butt, S. D. and Popescu, R. (2009a), “Pipe piles under mooring forces”, 17<sup>th</sup> International Conference of Soil Mechanics and Geotechnical Engineering, ICSMGE’09, Alexandria, Egypt, 5-9 October.
- Ramadan, M. I.**, Butt, S. D. and Popescu, R. (2009b), “Finite element modeling of offshore anchor piles under mooring forces”, 62<sup>nd</sup> Canadian Geotechnical Society Conference, GeoHalifax’09, Halifax, Canada.
- Ramadan, E.H., **Ramadan, M.**, Khashila M. M., and Kenawi , M.A. "Analysis of Piles Supporting Excavation Adjacent to Existing Structures" The 18<sup>th</sup> International Conference on Soil Mechanics and Geotechnical Engineering, Paris: 2835-2838.
- Ramadan, M. I.**, (2014), “Behavior of Offshore Piles under Monotonic Inclined Pullout Loading”, 17<sup>th</sup> Brazilian Conference on Soil Mechanics and Geotechnical Engineering – COBRAMSEG 2014, Goiânia, Brazil, 9-13 September, 2014.
- Ramadan, M. I.**, Butt, S. D. and Popescu, R. (2015), “Effect of Padeye Depth on the Behavior of Offshore Piles under Mooring Forces”, Proceedings of the ASME 2015 34th International Conference on Ocean, Offshore and Arctic Engineering, OMAE 2015, May 31- June 5, 2015, St. John's, Newfoundland, Canada.