

**Dr.Eng. Ahmed Ibrahim H. Ramadan, Ph.D.**  
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## EDUCATION

- 2010 – 2015 *Philosophy of Doctoral in Structural Engineering*, Assiut University, Egypt  
Major: *Structural Engineering*
- 2002 – 2005 *Master of Applied Science in Civil Engineering*, Assiut University, Egypt  
Major: *Structural Engineering (GPA 3.5- Grade: 83.33%)*
- 1997 – 2001 *Bachelor of Civil Engineering*, Assiut University, Egypt  
Major: *Civil Engineering (Grade: 81.48%- 1<sup>st</sup> rank class - Very good with Honour)*
- 1995 – 1997 *Naser High School*, Assiut, Egypt,  
Major: Mathematics (Grade: 96.63%)
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## EMPLOYMENT HISTORY

### Personal

#### Senior Structural Design Engineer

2000 – till now **Consulting Engineering Office, Assiut, Egypt**

- Geotechnical, Structural, Pipeline, and Water Supply Engineering Projects.
- Planning and designing residential, institutional, and industrial buildings and structures by applying knowledge of design, construction procedures, zoning regulations, building codes, and building materials.
- Drawing detailed layouts, plans, and illustrations of buildings, structures.
- Design of subways, highways, bridges, rail lines, ports, office buildings, schools, and hospitals, Governmental, Healthcare structures.

### Academic

- ❖ **Assistant Prof. in Structural Engineering - Civil Engineering Dept., Assiut University**
- ❖ **Vice Director of Quality Assurance Unit - Faculty of Engineering**
- ❖ **Coordinator for Quality Assurance and Accreditation – Civil Engineering Dept.**

#### Main Duties and Responsibilities:

- To contribute to teaching and assessment for modules at undergraduate and post graduate level including lectures, seminars, workshops, tutorials, laboratory classes and practical sessions.
- To undertake university, school, module and field administrative duties in consultation with the field leader and the relevant module and programme leaders.
- To manage module delivery and module teaching teams
- Take part in residential field schemes
- To deliver teaching and learning to students from a diverse and multicultural range of backgrounds.
- Willingness to undertake teaching during evenings and weekends
- Work within the university's equal opportunities policy.

#### Academic employment history and responsibilities

- Assistant Prof.: Full time (Sept., 2015 - Present).
- Assistant lecturer: Full time (July, 2005 – Aug., 2015).
- Demonstrator: Full time (Nov., 2001 – June, 2005).

#### -Research Assistant

2002 – 2014 **Faculty of Engineering, Assiut University, Egypt**

- Structural researcher.

2008 – 2011 **Faculty of Engineering, Memorial University of Newfoundland, Canada**

- Structural researcher.

### **Research Interests**

My research philosophy is to use fundamental principles to solve problems related to improving the resiliency of infrastructures;

- Use of advanced composite materials as reinforcement for concrete structures.
- Shear in concrete with particular emphasis on concrete members.
- Testing of concrete under generalized stress conditions.
- Structural Health Monitoring
- Constitutive modelling of concrete structures.
- Finite element analysis of concrete structures.
- Performance-based design methodology for collapse prevention, life safety, and sustainable infrastructure.

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### **Teaching Experience**

- Experience in establishing quality assurance systems in higher education.
- Experience in quality assurance training for faculty and staff members in QAA awareness, writing institutional mission, vision, and strategic objective.
- Experience in training for writing course specification, course reports, programme specification, programme reports, faculty annual report, and developmental plans.

### **Teaching Assistant**

2002 – 2014

**Faculty of Engineering, Assiut University, Egypt**

**I have been assisting in teaching the following undergraduate courses:**

- “Design of Concrete Constructions .3” 4th year civil
- “Design of Concrete Constructions .2” 3rd year civil
- “Design of Concrete Constructions .1” 2nd year civil
- “Theory of Structure” 1st year civil
- “Computer Applications in Civil Engineering” 4th year civil
- “Contractors and Specifications” 4th year civil
- “Theory of Structure” 1st year architecture
- “Theory of Structure” 1st year electrical
- In addition, I have participated in “Analysis and Design of Concrete Constructions Graduate Project” from 2002 till now.

### **Instructor**

2015 – Present

**Faculty of Engineering, Assiut University, Egypt**

**I’m instructor/Lecturer in teaching the following:**

***Undergraduate courses:***

- “Design of Concrete Constructions .3” 4th year civil
- “Design of Concrete Constructions .2” 3rd year civil
- “Design of Concrete Constructions .1” 2nd year civil
- “Structure Theory 1-A”, 1<sup>st</sup> year civil
- “Structure Theory 1-B”, 1<sup>st</sup> year civil
- “Concrete Structures”, 3<sup>rd</sup> year, Arch. Dept., Assiut University
- “Structural Systems”, 5<sup>th</sup> level, Interior Design Dept., Assiut University

***Postgraduate courses:***

- “Advanced Reinforced Concrete (1)” 1<sup>st</sup> year diploma-Civil Eng. Dept.

### **Attended training courses**

- Training course on “*Teacher Preparation*”, Faculty and Leadership Development Project, Funded by Ministry of Higher Education, held in FLDP center at Assiut University, 3-15 May 2003.
- Training course on “*Scientific Research Methodology*”, Faculty and Leadership Development Project, Funded by Ministry of Higher Education, held in FLDP center at Assiut University, 25-28 Feb. 2006.
- Training course on “*Professional Ethics*”, Faculty and Leadership Development Project, Funded by Ministry of Higher Education, held in FLDP center at Assiut University, 29-31 June 2006.
- Training course on “*The Skills of Effective Presentation*”, Faculty and Leadership Development Project, Funded by Ministry of Higher Education, held in FLDP center at Assiut University, 10-12 July 2006.

- Training course on “*Modern Trends in Teaching*”, Faculty and Leadership Development Project, Funded by Ministry of Higher Education, held in FLDP center at Assiut University, 1-3 Oct. 2006.
- Training course on “*Teaching by Technology*”, Faculty and Leadership Development Project, Funded by Ministry of Higher Education, held in FLDP center at Assiut University, 2-7 Nov, 2006.
- Training course on “*Preparation writing of scientific research and publishing internationally*”, Faculty and Leadership Development Project, Funded by Ministry of Higher Education, held in FLDP center at Assiut University, 27-29 Jan. 2007.
- Training course on “*Quality Standards in Teaching*”, Faculty and Leadership Development Project, Funded by Ministry of Higher Education, held in FLDP center at Assiut University, 1-3 June 2013.
- Training course on “*International Publishing of Research*”, Faculty and Leadership Development Project, Funded by Ministry of Higher Education, held in FLDP center at Assiut University, 8-10 June 2013.
- Training course on “*Research Ethics*”, Faculty and Leadership Development Project, Funded by Ministry of Higher Education, held in FLDP center at Assiut University, 15-17 June 2013.
- Training course on “*Credit Hours System*”, Faculty and Leadership Development Project, Funded by Ministry of Higher Education, held in FLDP center at Assiut University, 12-13 April 2014.
- Training course on “*Research Team Management*”, Faculty and Leadership Development Project, Funded by Ministry of Higher Education, held in FLDP center at Assiut University, 19-21 April 2014.

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## Publications

- [1] Ahmed I. Ramadan, Aly G. Abd El-shafy, “*Evaluation of Shear Strength of HSRC beams without web reinforcement*”, Proceedings of The ninth Alexandria international conference on Structural and Geotechnical Engineering AICSG9, Alexandria, Egypt; 12/2016.
- [2] Ahmed Ramadan, Aly G. Abd El-shafy, Mahmoud H. Ahmed, Atif M. Abdel-Hafez , “*Shear Response Investigation of HSRC Deep Beams without web Reinforcement PART I: Comparison of Design Equations*”, Journal of Engineering Sciences. 06/2013; 41(4):1432-1446.
- [3] Ahmed Ramadan, Aly G. Abd El-shafy, Mahmoud H. Ahmed, Atif M. Abdel-Hafez , “*Shear response investigation of HSRC deep beams without web reinforcement Part II Beam characteristics*”, International Journal of Advanced Engineering Applications. 01/2011; 4(6):49-57.
- [4] Ahmed Ramadan, Aly G. Abd El-shafy, “*Do ACI & JSCE codes emphasize the characteristics of high strength reinforced concrete deep beams or need re-evaluation?*”, Proceedings of The International Conference on Advances in Structural and Geotechnical Engineering, Hurgada, Egypt; 04/2015.
- [5] Thesis of M.Sc “*STRUCTURAL BEHAVIOR OF R.C. COLUMNS CONFINED WITH CFRP SHEETS UNDER VERTICAL AND LATERAL LOADS - (THEORETICAL APPROACH)*”, Ahmed Ibrahim H. Ramadan.
- [6] Hosny M. Soghair, Mahmoud H. Ahmed, Ahmed I.H. Ramadan, “*Theoretical study on structural behavior of R.C. columns confined by CFRP sheets under centric load*”, Bulletin of the Faculty of Engineering, Assiut University, Assiut, Egypt, Vol.33, No.4, part A, July 2005, pp.1201-1213.
- [7] Hosny M. Soghair, Mahmoud H. Ahmed, Ahmed I.H. Ramadan, “*F.E.A of R.C columns confined by CFRP laminates under axial and lateral loads*”, Proceedings of the 6th International Conference on Structural and Geotechnical Engineering, Faculty of Engineering Alexandria University, Alexandria, Egypt, April, 15-17/2007, PP. 257 - 269.RC 22ff.
- [8] Hosny M. Soghair, Mahmoud H. Ahmed, Ahmed I.H. Ramadan, “*Finite element analysis of rectangular concrete columns confined by CFRP laminates under axial and lateral loads*”, Proceedings of the 4th International Structural Engineering and Construction Conference, ISCE-4, Melbourne, Australia, September 26-28, 2007, pp.677-683, Vol.1.
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## Computer literacy

- Experienced in finite element analyses of structural systems (SAP2000, ANSYS)
  - Design of experiments (DOE).
  - Used Computer Aided Design packages, e.g. AutoCAD 2017, SolidWorks 2015, AutoCAD Structural Detailing 2015, AutoCAD QUANTITY TAKEOFF 2013, AUTODESK REVIT STRUCTURE 2016, Autodesk Robot Structural Analysis Professional 2016.
  - ETABS 9.7, ETABS 2013, SAFE 12, Column 8.4 and SAP2000 v.17.
  - Designed Concrete structures, buildings, bridges (steel and RC), water treatment stations and other infrastructure work.
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## Professional Associations & Committee Membership

- Member of the Syndicate of Egyptian Engineers.
  - Member of Federation of Arab Engineers.
  - Member of the American Society of Civil Engineering (ASCE).
  - Member of the American Society Institute (ACI).
  - Member of the American Society for Non-destructive Testing (ASNT).
  - Member of American Society of Testing Materials (ASTM).
  - Member of Canadian Society of Civil Engineering (CSCE).
  - Member of International Society for Structural Health Monitoring of Intelligent Infrastructure (ISHMII).
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## Scholarships and Awards

### Research

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|------|---|
| 2008 | Offer of PhD Degree from MUN “Memorial University of Newfoundland”, St. John’s, Canada.   |
| 2007 | Offer of PhD Higher Degree of Research (HDR) tuition fees scholarship from School of Aerospace, Civil and Mechanical Engineering, University of New South Wales, Australian Defense Force Academy, Canberra, Australia. |

### Academic

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|-------------|---|
| 2001        | Faculty of Engineering Student Union Award (at Assiut University, Egypt) for My graduation with <b>Very Good with Honor and Ranked 1<sup>st</sup> of Class 2001</b> |
| 2002        | Syndicate of Egyptian Engineers Award for my graduation with <b>Very Good Honor and Ranked 1<sup>st</sup> of Class 2001</b>   |
| 2000        | October 6 <sup>th</sup> University Award (Cairo, Egypt) for my <b>Intelligence Scientific Progress</b>  |
| 1998        | Faculty of Engineering Student Union Award (at Assiut University, Egypt) for my <b>Scientific Activity</b>  |
| 1997 – 2001 | Annual Faculty of Engineering, Assiut University Scholarship for <b>the Excellent Undergraduate Students</b>  |
| 1997        | Syndicate of Egyptian Engineers Award for my <b>excellent grade in High School</b>  |
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## **PERSONAL DETAILS**

Motivated, passionate and results-driven researcher, educator, advisor, and project manager in charge of instructing, guiding, and leading teams of researchers to solve challenging problems related to civil infrastructure and structural, earthquake, and bridge engineering. As an academic, I have successfully written cutting-edge proposals, and possess outstanding administrative, analytical, communication, interpersonal, organizational, multitasking and technical writing skills to obtain high quality results and lead change.

### **Interpersonal Skills:**

- Open to new and different ways of doing things with responsibility.
- The ability to build relationships based on mutual trust and respect.
- Self-Awareness and Social Awareness.
- Face challenges and problem solving.
- Quick learner, ability to prioritize assignments and allocate appropriate time for completing work
- Well-developed abilities in innovation thinking, critical analysis, independent research, and engineering problem solving, demonstrated many Years of working in multiple roles in the engineering field
- Excellent interpersonal communications, analytical, leadership, organizational and project management skills;
- Reporting, coordination, planning skills, prepared, reviewed and completed project reports progress meeting and high ability to meet deadlines

### **Personal Information:**

**Full Name:** Ahmed Ibrahim Hassan Ramadan

**Sex:** Male

**Marital Status:** Married

**Date of birth:** May, 4<sup>th</sup> 1978

**Place of Birth:** Moscow – RUSSIA

**Military status:** Done

### **Referee:**

- Prof. Dr./ Yahia Abdel-Azim Hassanein Mekhemer, Professor of R.C. Structures, Faculty of Engineering, Assiut University, Assiut, Egypt.

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- Prof. Dr./ Hesham Mohamed Ahmed Diab, Professor of R.C. Structures, Faculty of Engineering, Assiut University, Assiut, Egypt.

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- Prof. Dr./ Amgad A. Hussein, Professor of R.C. Structures, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, St. John's, NL, Canada.

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- Prof. Dr./ Youssef Aly Abbas Abd Elhafez , Head of the Department of Civil Engineering, Professor of Eng. Mathematics, Faculty of Engineering, Assiut University, Assiut, Egypt.

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- Prof. Dr./ Gamal Abu Zeid Abdul Rahim AbuZeid, Vice Dean for Education and Student Affairs, “*Acting Dean*”, Faculty of Engineering, Assiut University, Assiut, Egypt.

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- Prof. Dr./ Hassan Ibrahim Mohamed Mohamed, Vice Dean for Education and Student Affairs, “*Acting Dean*”, Faculty of Engineering, Assiut University, Assiut, Egypt.

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