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### **DEGREES:**

- **B.Sc.**, 2006, Bachelor of Civil Engineering Degree, Excellent with honor's degree, Ranked 4 th over 420 candidates, Civil Engineering Department, Faculty of Engineering, Mansoura University, Egypt.
- **M.Sc.**, 2013, Master of Science Degree, Structural Engineering Department, Faculty of Engineering, Mansoura University, Egypt. Thesis title - "Use of secant piles to support excavation".
- **PhD**, 2019, Doctor of Philosophy Degree, La Rochelle and Mansoura universities co-supervision-France, Egyptian missions. Thesis title - "The heat and moisture effect on the structures".

### **ACADEMIC AND INDUSTRIAL POSITIONS**

- 2021-until now, Scientific project manager," Sustainable buildings with low cost and high energy performance from solid buildings wastes and excavated soil wastes".
- 2019-until now, Assistant Professor of Structural Engineering Structural Engineering Department, Faculty of Engineering, Fine arts faculty, Mansoura University, Egypt.
- 2021-unit now, Member of Association "Engineers for sustainable Egypt
- 2010-until now, Construction designer and site manager for over 50 residential buildings.
- 2019-until now, Lecturer in civil engineering of, Nile, Misr, Delta, El-Monophia, Future Higher institutes for engineering and technologies
- 2016-2019, PhD Candidate, Research Assistant, La Rochelle university, LaSIE Lab, France.
- 2013-2016, Teaching Assistant, Structural Engineering Department, Faculty of Engineering, Mansoura University, Egypt.
- 2010-2013, Demonstrator, Structural Engineering Department, Faculty of Engineering, Mansoura University, Egypt.
- 2007-2010, Soil Lab Engineer, Structural Engineering Department, Faculty of Engineering, Mansoura University, Egypt

### **Teaching Experience**

I have fifteen years of teaching the following courses for architecture, civil, and structural students in different study levels; Bachelor, Diploma, Master, and Doctoral. This includes both face to face courses and online courses:

- Sustainable buildings,
- Buildings Energy efficiency,
- Soil Mechanics,
- Shallow buildings foundations,
- Deep foundations,
- Construction Materials,
- Project Management
- Construction project management,

- Bearing wall buildings design,
- Quantities & Specifications,
- Civil Drawings,
- Civil Engineering projects,
- Structural Analysis,
- Buildings construction.

### **Patents**

- Sustainable building units on Road Island from buildings construction wastes for street vendors, under submission after validation, January/2022.
- Zero cooling energy buildings using solid waste ventilated roof, under submission after validation, January-June/2022.
- Low cooling stores buildings using sustainable waste materials in footings and walls, under submission after validation, January-September/2022

### **Books**

- Construction project management, v1, Nov./2022.
- Sustainable Buildings, under preparing.
- LEED v4, BD+C, 7 drawings flow charts, summarizing USGBC requirements, DWG format, Egypt.
- Questions Bank-8000 Q in Soil Mechanics and foundations design, July 2020, Egypt.
- Soil Mechanics, 5338/9 February 2020, National Library & Archives, Egypt.
- Foundations Engineering 1, 5337/9 February 2020, National Library & Archives, Egypt.
- Foundations Engineering 2, 5336/9 February 2020, National Library & Archives, Egypt.

### **Journal Publications:**

- 1) Reda Y. M. Allam\*, Rafik Belarbi, Madi Kabore and Sherif Sheta, "Cooling Energy Savings for A Campus Building Using Sustainable Envelope-Case Study., MEJ. Mansoura Engineering Journal 47 (2), 50-61, 2022.
- 2) Y Chbani Idrissi, R Belarbi, R Allam, MB Feddaoui, F Bennai, D Agliz, "Experimental and numerical validation of hygrothermal transfer in brick wall, Heat Transfer 50 (6), 6300-6327, 2021.
- 3) R. Allam, N. Issaadi, Rafik Belarbi, M. El-Meligy, A. Altahrany, "Hygrothermal behavior of a clay brick wall" Heat and Mass Transfer journal, December 2017, DOI: 10.1007/s00231-017-2271-5.
- 4) A. Dif, A. Ibrahim, R. Allam, "Behavior of Secant Piles Wall in The Soil ", International Conference on Advances in Structural and Geotechnical Engineering, Hurgada, Red Sea, Egypt, April-2015.
- 5) A. Dif, A. Ibrahim, R. Allam" Lateral deflection of secant piles wall in soft clay" Mansoura Engineering Journal, Vol.37, No.2, June 2012.

### **Research Interests**

- 1) Service buildings units using sustainable waste materials.
- 2) Thermal performance for the social buildings.

- 3) Sustainable solutions for buildings footings problems, sustainable buildings Footings.
- 4) Thermal and physical properties of sustainable buildings materials.
- 5) Thermal and hygic performance of existing buildings in hot climates.
- 6) Sustainable practical solutions to reach thermal comfort within residentials and commercial indoors.
- 7) Sustainable buildings materials for less energy consumption.
- 8) Thermal and physical properties of buildings materials.
- 9) Soil improvement, Earth retaining structures behavior in soft clay soil.

