

# Abdelrahman Mabrouk, EIT

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## Profile

A highly motivated Engineer-In-Training and is eligible for Professional Engineer registration with 10 years of experience in civil design and construction coordination. A Skilled Structural EIT is currently looking for a transition from Ph.D. to Industry. Excellent communication skills were gained as a Sessional Instructor and Teaching Assistant. Proficient critical thinking and creativity were achieved to address challenges effectively.

## Education

- **Ph.D. Candidate:** Civil Engineering Department, The Price Faculty of Engineering, **University of Manitoba, Canada.** (GPA: 3.83/4.5)
- **Graduate Diploma:** Civil Engineering Department, Faculty of Engineering, Benha University- Shobra Campus, Egypt. (GPA: 3.4/4)
- **Master of Science** in Structural Engineering from Cairo University, Egypt in June 2017 (GPA 3.6/4). Thesis title is “*3D Nonlinear Analysis of RC Beams Shear-strengthened with FRP Sheets.*”
- **Bachelor of Science** in Construction and Building Engineering from Arab Academy for Science, Technology, and Maritime Transport (AASTMT), Egypt in July 2012. 3<sup>rd</sup> of the class, Excellent with honor (GPA 3.85/4)

## Skills

- |                                 |                         |               |
|---------------------------------|-------------------------|---------------|
| ● OpenFOAM toolbox with Linux   | ● ABAQUS Finite Element | ● RStudio     |
| ● ANACONDA Navigator for Python | ● SAP Finite Element    | ● TeXstudio   |
| ● LIGGGHTS DEM                  | ● AutoCAD               | ● QGIS        |
| ● MATLAB                        | ● Salome-Meca           | ● Borland C++ |
| ● Primavera P6                  | ● Code-Aster Analysis   |               |

Standards and design codes knowledge

CSA A23.3:19, CSA S6:19, CSA 16:19, ACI 318-19, ACI PRC-201.2-23, ACI PRC-440.2-23, ASTM C136/C136M-19, ASTM C143/C143M-15a, ASTM C78/C78M-21, ASTM C666/C666M-15, ECP 203-2020, ECP 205-2001, and ECP 208-2005

## Professional employment

- Structural Designer at the Archeological Buildings Maintenance Center (ABMC)  
From 01/08/2017 to 30/11/2020
  - ✓ Inspected and evaluated historical buildings conditions, analyzed loads, modeled complex structural simulation, and designed strengthening details of concrete and masonry buildings to improve the structural capacity and service performance.

- ✓ Retrofitted and rehabilitated large-scale government-owned projects of reinforced concrete and steel buildings to increase the structural foundation capacity.
- ✓ Pioneered construction precautions to enhance the contractor's efficiency.
- Project Coordinator at GM Construction Industry. From 01/09/2012 to 31/07/2017
  - ✓ Managed budgets, estimated costs, and ensured timely delivery of equipment and materials for small and medium-scale projects to achieve safety regulations and attain building codes specifications.
  - ✓ Implemented Bill of Quantities, supervised construction methods, and managed construction from soil cutting to finishing stages of large and Mega-projects to improve quality control and achieve clients' desires.
  - ✓ Scheduled and planned projects using Primavera P6 to ensure projects delivery on time.

### **Academic employment**

- University of Manitoba

Teaching Assistant (TA), Civil Engineering Materials, CIVL 2770 and Introduction to Statics, ENG 1440, From Fall 2021 to present.

Sessional Lecturer: Summer 2022, Department of Mathematics, MATH 1300 – Distance Education

- International College of Manitoba (ICM)

Winter 2024, Sessional Instructor, Introduction to Statics, ENG 1440

Winter and Summer 2023, TA, Introduction to Statics, ENG 1440

- Arab Academy for Science, Technology, and Maritime Transport (AASTMT), Construction and Building Engineering Department, Cairo, Egypt.

Assistant Lecturer: from Fall 2012 to Fall 2020, (Courses taught: Structural Analysis, Solid Mechanics, Civil Engineering Materials, Design of Reinforced Concrete Structures, and Design of Steel Structures, Construction Surveying, Soil Mechanics, and Engineering Geology)

### **Volunteering**

- University of Manitoba (UM) International Students' Centre, Orientation for newcomers. (Winter 2024)
- Mentor at UM Muslim Students' Association (MSA) (Winter 2024)
- Summer Buddy Program for Newcomer International Students (Summer 2023)
- Mentor for University of Manitoba first year students (Winter 2023)
- Site Civil Engineer: Antec Corporation - Hassan Allam Holding, Egypt, July to August 2018 and 2019