

# Mohamed Zakaria

## PERSONAL DATA

**Date of Birth** : May 3<sup>rd</sup>. 1991  
**Nationality** : Egyptian  
**Marital Status** : Married  
**Military status** : Exemption  
**Current Address** : Sohag. Egypt  
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## Education

- **Assuit University**  
Master degree, Structural Engineering, Mar 2018.  
Master courses, Structural Engineering with (87%)
- **Sohag University**  
Bachelor of Science (BSc), **Honors**, Structural Engineering with GPA 3.46 of 4 (86 %)
- **Master title**  
shear REPAIRING of r.c beams using nsm pre-stressed steel bars.
- **Master abstract**  
This study attempts to understand the shear behavior of reinforced concrete (R.C) beams externally strengthened with Near Surface Mounted (NSM) pre-tensioned steel bars. Twelve reinforced concrete beams of cross-section 150 mm width, 300 mm overall thickness and total span length 1400 mm were fabricated and tested using three point load test. One of these was fabricated without strengthening while the others were repaired to study the effect of damage levels, pre-tensioning levels, binder groove filler, and spacing of NSM pre-stressed bars on shear behavior of the repaired R.C beams. The results showed that the effectiveness of the proposed technique is achieved in both ultimate and serviceability limit state. NSM pre-stressed bars could reduce the effect of the existing cracks and increase the beams capacities. Also, the mode of failure of the repaired beam changed from brittle failure to ductile failure.

## EXPERIENCE

- **Working and training at Faculty of Engineering, Sohag University, Egypt.**  
Sep 2013 · demonstrator – teaching the following Courses (Design of steel bridges – Design of Reinforced concrete Structures 1 and 2- Theory of structures 1) as well as i participated in Concrete Structures graduate projects.  
Mar 2018, teaching assistant- teaching (Design of Reinforced concrete Structures 1 and 2).  
Holding weekly (sessions, quizzes, and mid-term exams (20 HR/week).  
Participating in developing and equipping the laboratories in Sohag University Faculty of Engineering.  
Human Development, Modern directions in teaching and using technology in teaching.
- **Working at Middle East Engineering Consulting Office, sohag, Egypt.**  
Works as a structural designer (Aug 2013 to Oct 2015).

## Publications

- Shear Behavior of R.C Beams Strengthened Using NSM Pre-stressed Bars.( INTERNATIONAL CONFERENCE ON ADVANCES IN STRUCTURAL AND GEOTECHNICAL ENGINEERING , HURGHADA 27- 30 MARCH 2017)
- Behavior of R.C beams strengthened by pre-stressed bars.(in progress)

## **COMPUTER SKILLS**

- **DRAWING PROGRAMS**  
- AUTOCAD
- **STRUCTURAL ANALYSIS & DESIGN PROGRAMS**  
- SAP 2000 – Etabs – Safe12 – CSI-column
- **Microsoft Word, Excel, PowerPoint.**

## **CORE COMPETENCIES**

- Strong technical background.
- Excellent communicator at all levels and work in multidisciplinary teams.
- Ability to work under pressure while achieving targets.
- Able to solve problems using logic, creativity, and innovative approaches.
- Capable of careful attention to detail, exercising good judgment and accepting responsibility.

## **LANGUAGE SKILLS**

- Mother tongue: Arabic
- Foreign language: English (very good).

***References Furnished Upon Request***