

CURRICULUM VITAE

PERSONAL DATA:

- **Name:** Ayman Abdo Mohamed Hussein
- **Date of birth:** 17/7/1984
- **Nationality:** Egyptian
- **E-mail:** Eng_a_abdo@yahoo.com; aabdo@zu.edu.eg
- **Marital status:** Married
- **Military Status:** Exempted
- **Major:** Civil Engineering
- **Fine:** Structural Engineering
- **Current position:** Associate Professor - Structural Engineering Dept., Faculty of Eng. - Zagazig University
- **Profession:** Structural Engineering
- **Firm:** Faculty of Engineering – Zagazig University
- **Years of Experience:** 18
- **Mobile no. & Whatsapp:** +201001040132
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- **Page:** <https://www.researchgate.net/profile/Ayman-Abdo/research>
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 - <http://www.aahessein.faculty.zu.edu.eg/Default.aspx>



EDUCATION:

- **Assoc. Prof.** Structural Engineering, Zagazig University, Egypt, 2023
- **PhD** Structural Engineering, Zagazig University, Egypt, 2016
- **M.Sc** Structural Engineering, Zagazig University, Egypt, 2011
- **B.Sc.** Civil Engineering – Zagazig University, Egypt, 2006 with Grade Excellent with honor, the First of Class
- **Graduation project:** Analysis and Design of Tall Buildings.

OCCUPATION:

- **Demonstrator** (2006- 2011) at Structural Engineering Department- Faculty of Engineering- Zagazig University.
- **Lecturer assistant** (2011 - 2016) at Structural Engineering Department- Faculty of Engineering- Zagazig University.
- **Assistant Professor** (2016 - 2023) at Structural Engineering Department- Faculty of Engineering- Zagazig University.
- **Associate Professor** (2023 - present) at Structural Engineering Department- Faculty of Engineering- Zagazig University.

LANGUAGES

- **Arabic:** mother tongue
- **English:** fluently spoken, written, and reading

COMPUTER SKILLS

- Sap
- Safe
- Etabs
- Staad
- Autodesk, AutoCAD
- MS Office
- MatLab
- ANSYS
- Abaqus

TEACHING ACTIVITIES:

During my work at Zagazig University, I helped in teaching the following courses:

- I am teaching construction courses by computer (1) for the fourth year in the Department of Civil Engineering.
- I am teaching the Structure Analysis (1) courses - Structure Mechanics (1) for the first year in the Department of Civil Engineering.
- I am teaching the Structure Analysis (2) courses - Structure Mechanics (2) for the second year in the Department of Civil Engineering.
- I am teaching a Civil Engineering (1) course in the Electrical Engineering Department.
- I am teaching a Civil Engineering (1) course at the Department of Mechanical Engineering.
- I am teaching a Civil Engineering (1) course at the Industrial Engineering Department.
- Participate in and discuss graduation projects for department students.
- Participate in preparing undergraduate and postgraduate courses' curricula and scientific content.
- Participate in the oral and written examinations held for students in the department.
- Participation in the development of courses and teaching methods and the conversion of some courses of analysis and construction mechanics into electronic courses
- I participate in technical committees, inspection committees, and the purchasing department.
- I participate in the oversight, examination, monitoring, and monitoring committees.
- Teaching reinforced concrete design at every civil engineering level.
- I am teaching Sap, AutoCAD, and MatLab programs.
- Teaching Finite Element Abaqus Program.

DUTY TASKS

- Preparing and delivering lectures and conducting tutorials, seminars, and laboratory sessions
- Attending departmental and faculty meetings, conferences, and seminars
- Supervising work programs of postgraduate and honors students and tutorial staff in the structural engineering department
- Participating in setting course and degree requirements, curriculum revision, and academic planning
- Conducting research and undertaking consultancies in a structural engineering department
- Preparing and marking essays, assignments, and examinations
- Advising students on academic and related matters
- Serving on the council, senate, faculty, and other committees and academic boards
- Stimulating and guiding class discussions
- Compiling bibliographies of specialized materials for reading assignments

University And Community Activities

- Participate in preparing the new regulations in the department for undergraduate and postgraduate studies.
- I am preparing and participating in the plans of the scientific committee in the student activities sector.
- I participate in the design and inspection work of many projects of the college's technical consulting and research centers.
- Standard Teaching and Learning Coordinator for the Civil Engineering Program.

RESEARCH ACTIVITIES

- (H index) = 3
- Preparing (14) scientific research and accepting it for publication.

- Participation in arbitration research for international journals
- Participation in international and local conferences
- Supervision (4) master's and doctoral dissertations - theses have been completed, and (4) are in preparation.
- Participate in preparing the department's research plan.
- I participate in seminars and dissertation discussions in the department.
- Participate in the seminars of the recordings of the research points in the department and prepare to form committees to discuss the scientific theses registered in the department.
- I am choosing research topics for postgraduate students and supervising them in the department to serve the local community and develop the environment.

THESIS

- **Ayman Abdo**, "Pounding Control of Base Isolated Structures," **MSc** Thesis, Dep. Structural Engineering, Faculty of Engineering, Zagazig University, Egypt. 200 pp, July 2011.
- **Ayman Abdo**, "Damage Detection of Slabs Using Limited Measurements," **PhD** Thesis, Dep. Structural Engineering, Faculty of Engineering, Zagazig University, Egypt. 250 pp, December 2016.

PUBLICATIONS:

- 1) Sayed Abd-Elsalam, Atef Eraky, H.E.Abd-El-Mottaleb and Ayman Abdo. ***Control of Adjacent Isolated Buildings Pounding Using Viscous Dampers***. J Am Sci 2012; 8 (12): 1251-1259. (ISSN: 1545-1003). <http://www.jofamericanscience.org>.
- 2) S. Abdel Salam, A. Eraky, H. Abdel Mottaleb & Ayman Abdo., ***Pounding Control Of Structures Using Base Isolation***, International Journal Of Engineering And Innovative Technology (IJEIT) Volume 4, Issue 8 March 2015.
- 3) Atef Eraky, Ahmed M. Anwar, Alaa Saad, Ayman Abdo. ***Damage detection of flexural structural systems using damage index method – Experimental approach***. Alexandria Engineering Journal Volume 54, Issue 3, September 2015, Pages 497–507.

<https://doi.org/10.1016/j.aej.2015.05.015>.

- 4) Atef Eraky, Ahmed M. Anwar, Alaa Saad, Ayman Abdo. ***Damage detection of plate-like structures based on residual force vector***. HBRC Journal Volume 12, Issue 3, December 2016, Pages 255-262. <https://doi.org/10.1016/j.hbrcj.2015.01.005>.
- 5) Sayed Ahmed, Ramadan Asker, Dina Atef, and Ayman Abdo. ***Compressive Strength of GUHPFRC Incorporating Fly Ash and Steel Fibers with Dissimilar Configuration***. Egyptian International Journal of Engineering Sciences & Technology. Vol. 35 (2021) 8–15. <https://doi.org/10.21608/eijest.2021.67335.1055>.
- 6) Ibrahim A. Sharaky, Ahmed S. Elamary, Yasir M. Alharthi, Ayman Abdo. ***Effect of Normal and Rubberized Concrete Properties on the Behavior of RC Columns Strengthened with EB CFRP Laminates and Welded Wire Mesh under Static Axial Loading***. *Polymers* 2022, 14 (24), 5351; <https://doi.org/10.3390/polym14245351>.
- 7) Sayed Ahmed, Heba A. Mohamed, Talaat Ryad & Ayman Abdo. ***Enhancing shear behaviour of the exterior beam-column joint using sufficient reinforcement details or ultra-high-performance fiber-reinforced concrete***. *European Journal of Environmental and Civil Engineering*; 2023; <https://doi.org/10.1080/19648189.2023.2168764>.
- 8) Sayed Ahmed, I.A. Sharaky, Yasser E. Ibrahim, Ayman Abdo. ***Flexural response of GFRP RC beams strengthened with side and bottom NSM GFRP bars***. *Case Studies in Construction Materials*. Vol. 18, July 2023, e01858; <https://doi.org/10.1016/j.cscm.2023.e01858>.
- 9) Sayed Ahmed, Ayman El-Zohairy, Ahmed S. Eisa, Mohamed Abd El-Aziz Badran Mohamed and Ayman Abdo. ***Experimental Investigation of Self-Compacting Concrete with Recycled Concrete Aggregate***. *Buildings*. Vol. 13, Issue 4, July 2023, e01858; <https://doi.org/10.3390/buildings13040856>.
- 10) I.A. Sharaky, Ayman Abdo, Sayed Ahmed. ***Effect of NSM Materials on the Flexural Response of Strengthened Concrete Beams Internally Reinforced with GFRP and Steel Bars***. *Engineering Structures*. Vol. 292, 1 October 2023, 116565; <https://doi.org/10.1016/j.engstruct.2023.116565>.
- 11) Ayman Abdo, I.A. Sharaky, Sayed Ahmed. ***Shear Performance of Reinforced Concrete Beams Strengthened in Shear Using NSM Bars and Reinforced HSC Layers***. *Structural Concrete*. 2023; <https://doi.org/10.1002/suco.202201016>.
- 12) Ayman Abdo, Sayed Ahmed, Mohamed Selim, I.A. Sharaky. ***Effect of Main Reinforcing Materials on the Behavior of the RC Beams Strengthened in Shear Using***

NSM Reinforced High Strength Concrete Layers or Bars. Case Studies in Construction Materials. Vol. 18, July 2023, e02109; <https://doi.org/10.1016/j.cscm.2023.e02109>.

13) Ayman Abdo, Heba A. Mohamed, Talaat Ryad, Sayed Ahmed. ***The impact of utilizing ultra-high-performance fiber-reinforced concrete in beam-column joints with different patterns of transverse reinforcement. Frattura ed Integrità Strutturale. 64 (2023) 11-30; <https://doi.org/10.3221/IGF-ESIS.64.02>.***

14) Ayman Abdo, Ramadan Asker, Dina Atif sobhy, Sayed Ahmed. ***Experimental and numerical investigations of the flexural behaviour of Green - Ultra High Performance Fiber Reinforced Concrete beams under repeated loads. Frattura ed Integrità Strutturale, 64 (2023) 148-170, <https://doi.org/10.3221/IGF-ESIS.64.10>.***

EMPLOYMENT HISTORY

Structural Design Engineer

- Structural analysis and design of multidisciplinary reinforced concrete mid to large-scale projects in associating with a team of limited members (2 usually) or as an individual, using the Egyptian code of practice (ECP) or international codes of practice such as (ACI, BS., etc.).
- Prepare tender, detailed design drawings.
- Review workshop drawings prepared by contractors.
- Provide workshop drawings when included in the scope.
- Projects are, but are not limited to:
- AUG PHARMA: Medical factory and low administrative rise building-6th October, Egypt.
- NEW GIZA: Different types of villas-Cairo Alex. Road, Egypt.
- EVERGREEN: High-rise administrative building (16 stories).
- Assessment and repair using 3D modeling of existing high rise (16 stories) administrative building in Cairo, Egypt, has serious cracks.
- Technical support as contractor consultant-Cairo, Egypt.
- MANAR MALL: Foundation value engineering for shopping mall extension. Ras Al Khaimah, UAE.

- INDIVIDUAL VILLAS
- LOW-RISE RESIDENTIAL BUILDINGS
- RESTAURANTS
- ADMINISTRATIVE BUILDINGS
- STEEL WORKSHOPS

Site Engineer

- Inspection and monitoring of the daily construction work.
- Survey leveling and earth cut works.
- Preparing daily site logs to be reported to the construction manager.
- Solving upcoming construction problems with the assistance of the construction manager.
- All projects were residential buildings of 12 stories high.

PERSONAL SKILLS

- Initiative
- Hard worker
- Team worker
- Graphics & Presentation design
- Technical Reporting