RESUME

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EDUCATION BACKGROUND:

1999 - 2003 Ph.D. (Structural Engineering – Reinforced Concrete)
Cairo University, Egypt

1996 - 1997 Master of Engineering Studies- Civil (course work degree)
University of Auckland, New Zealand
Papers attended are in the domain of earthquake & structural design.

1992 – 1995 Master of Engineering- Structural Engineering (research degree)
University of New South Wales, Australia

1985 - 1990 Bachelor of Engineering Science- Civil
Cairo University, Egypt
Graduation Grade: very good (83%)
Final Year Project: Design of Different Reinforced Concrete Structures, completed with grade "distinction".

AWARDS:

1. Considerable number of small grants from the Housing and Building National Research Center for my research work performed in the center.
2. " Overseas Postgraduate Research Scholarship " from the University of New South Wales for my Master of Engineering degree.
3. " Student Promotion Award " from Cairo University during my undergraduate study.

PUBLICATIONS:

1." Seismic Upgrading of Reinforced Concrete School Buildings. "
Current.
2." Shear Strength Evaluation in the Existence of Axial Compressive Loads for Reinforced Concrete Beams. "
Completed.
3." Finite Element Analysis of Reinforced Concrete Deep Beam with Large Opening. "
Beni_Suef University Journal of Basic and Applied Sciences, Volume 10, No. 25, 2021, pp. 1-13.
4." Punching Strength of Conventional Reinforced Concrete Flat Slabs. "
HBRC Journal, Volume 17, No. 1, 2021, pp. 77-91.
5." Long-Term Deflections of FRP Reinforced Concrete Beams. "
HBRC Journal, Volume.16, No. 1, 2020, pp. 269-282.
6." Numerical Investigation for the Behavior of Steel or FRP Reinforced Concrete Columns Under Eccentric Compression Loads. "

2nd International Conference on Innovative Building Materials (IBMC-18), 2-4 Dec. 2018, Cairo, Egypt.

7." Seismic Behaviour of Shape Memory Alloy Reinforced Concrete Frames With and Without Bracings. "
Building Engineer, Volume.93, No. 6, June 2018, pp. 30-34.

8." Seismic Performance of GFRP Reinforced Concrete Beams in the Existence of Light Axial Compressive Load. "
10th International Conference on Nano-Technology in Construction (NTC 2018), 13-17 April 2018, Hurgada, Egypt, paper code 1100.

9." A Detailed Immediate Deflection Model for FRP Reinforced Concrete Beams. "
The International Engineering Conference & Exhibition (IECE), 4-7 December 2017, Riyadh, Saudi Arabia.

10." Seismic Assessment of Reinforced Concrete Frames with Bracings and Infilled Panels. "
Building Engineer, Volume 92, No.10, October 2017, pp. 29-33.

11." Seismic Retrofit of Existing Reinforced Concrete Framed Buildings. "
Building Engineer, Volume 92, No. 7, July 2017, pp. 32-35.

12." Assessment of Bracing Systems for Seismic Enhancement of Reinforced Concrete Frames. "
2nd International Conference on Bridge Testing, Monitoring & Assessment, 27-29 December 2015, Cairo, Egypt.

13." Theoretical and Experimental Study of Slender Concrete Columns Reinforced with GFRP Bars. "
International Scientific Research Journal, Volume 1, June 2015, pp. 82-87.

14." Application of Pushover Analysis for the Calculation of Behavior Factor for Reinforced Concrete Moment-Resisting Frames. "
International Journal of Civil and Structural Engineering, Volume 5, No. 3, February 2015, pp. 216-226.

15." Behavior and Modeling of Concrete Deep Beams Reinforced with GFRP Rebars. "
First International Conference on Innovative Building Materials (IBMC-14), 28-30 December 2014, Cairo, Egypt.

16." Comparative Study for Punching of FRP-Reinforced Concrete Slabs. "
The Arabian Journal for Science and Engineering, Volume 38, No. 10, October 2013, pp. 2601-2617.

17." Structural Performance of Eccentrically Loaded GFRP Reinforced Concrete Columns. "
International Journal of Civil and Structural Engineering, Volume 2, Issue 1, November 2011, pp. 395-406.

18." Influence of Fibers on Flexural Behavior and Ductility of Concrete Beams Reinforced with GFRP Rebars. "
Engineering Structures, Volume 33, Issue 5, May 2011, pp. 1754-1763.

19." Flexural Behavior of Cantilever Concrete Beams Reinforced with Glass Fiber Reinforced Polymer (GFRP) Bars. "
Journal of Civil Engineering and Construction Technology, Volume 2, No. 2, February 2011, pp. 33-44.

20." Behavior of Concrete Columns Confined with Circular Imbedded Glass Fiber-Reinforced Polymer Tubes. "
Eighteenth Annual International Conference on Composites/ Nano Engineering (ICCE-18), 4-10 July 2010, Anchorage, Alaska, USA.

21." Structural Behavior of Self-Consolidating Concrete Slabs. "
HBRC Journal, Volume 6, No. 3, December 2010, pp. 69-77.

22."National Project: Innovative Technique for Low Cost Housing – Sand Bags", Report Submitted to the Housing and Building National Research Center, July 2010, Giza, Egypt, 71 pp.

23." Structural Performance and Characteristics of Concrete Containing Micro-TiO_2 Particles. "
International Conference on Nano-Technology for Green and Sustainable Construction, 14-17 March 2010, Cairo, Egypt.

24." Effective Moment of Inertia of Reinforced Medium Strength Concrete Beams. "
HBRC Journal, Volume 5, No. 3, December 2009, pp. 47-58.

25." Expressions for the Maximum Span-to-Depth Ratio of Reinforced Concrete Beams to Limit Deflection. "
HBRC Journal, Volume 5, No. 1, April 2009, pp. 97-103.

26." Long Term Deflection of Reinforced High Strength Concrete Beams. "
HBRC Journal, Volume 4, No. 3, December 2008, pp. 96-104.

27." Punching Shear Resistance of Normal and High Strength Reinforced Concrete Flat Slabs. "
Civil Engineering Research Magazine, Volume 30, No. 3, October 2008, pp. 982-1004.
28." Strength and Ductility of Spirally Reinforced Square Concrete Columns With and Without Internal Fibers."
Civil Engineering Research Magazine, Volume 30, No. 3, October 2008, pp. 906-918.
29." Investigation of Reinforced Concrete Columns Strengthened Externally with Steel Jacket and Fiber Composite. "
Civil Engineering Research Magazine, Volume 30, No. 3, October 2008, pp. 831-848.
30." Behavior of Strengthened Masonry Walls. "
HBRC Journal, Volume 4, No. 1, April 2008, pp. 79-86.
31." Influence of Horizontal Construction Joint on the Flexural Behavior of Reinforced Concrete Slabs. "
HBRC Journal, Volume 3, No. 3, Dec. 2007, pp. 81-90.
32." Morphological Cracking Aspects of Concrete Composites Elements under Time Dependent Stresses of Direct Surface Firing. "
Third International Structural Engineering and Construction Conference.
Volume 2, pp 1087-1096, 20-23 Sept. 2005, Shunan, Japan.
33." Structural Behavior of High Strength Reinforced Concrete Columns Exposed to Direct Fire. "
International Conference on Future Vision and Challenges for Urban Development.
20-22 Dec. 2004, Cairo, Egypt.
34." The Influence Of Axial Forces On The Performance Of Reversing Plastic Hinges In Seismic Resistant Reinforced Concrete Ductile Frames. "
In Proceedings of the Seventh Arab Structural Engineering Conference.
Volume 1, pp 461- 471, 24- 26 Nov. 1997, Kuwait.

ACKNOWLEDGEMENTS:
Acknowledged by
1." Validation of FE Modeling for Shallow Reinforced Concrete Beams "
Al-Azhar University Civil Engineering Research Magazine (CERM), Volume 40, No. 3, July 2018, pp. 175-188.

SHORT COURSES ATTENDED:

Marh 2021	Foresight for Entrepreneurship: The Future Opportunities of Your Business. Housing and Building National Research Center, Egypt
Feb. 2021	Workshop on Seismic Isolation. Housing and Building National Research Center and Japan Society of Seismic Isolation, Egypt
Feb. 2021	How to Guarantee an Effective Formulation for Completing a Patent Application. National Research Center, Egypt
October 2020	Marketing Mechanisms for Scientific Innovations. Housing and Building National Research Center, Egypt
May 2020	Strategy Formulation and Planning. Academy of Scientific Research, Egypt
April 2020	Duties of Innovation Support Offices. Academy of Scientific Research, Egypt
Feb. 2019	Conference: The Future of Scientific Constituent for Sustainable Development (Education and Research as an Example). Ain Shams University, Egypt
Feb. 2017	Management of Construction Projects. Housing and Building National Research Center, Egypt
May 2004	Causes of Structural Faults and Methods of Repair.

	Housing and Building National Research Center, Egypt
Jan. 2003	Structural Analysis Program (SAP2000).
	Cairo University, Egypt
May 1994	Short Course on High Performance Concrete- Technology and Design.
	University of New South Wales, Australia
May 1994	Seminar on Tutoring.
	University of New South Wales, Australia
Sep. 1992	Reinforced Concrete Structures- Behavior and Design.
	University of New South Wales, Australia

MEMBERSHIP OF PROFESSIONAL BODIES:

1. The Institution of Engineers, Australia (until 2000).
2. Concrete Institute of Australia (in 1995 only).
3. Egyptian Syndicate of Engineers.

CONFERENCES AND COMMITTEES:

1. Attended a considerable number of conferences.
2. Acted as a technical secretary for the Egyptian Code for Design and Construction of Reinforced Concrete Structures (ECP203-2007).

SUPERVISION OF GRADUATION PROJECTS AND THESIS:

1. Reinforced Concrete Graduation Project.
   Years: 2016, 2017, 2018, 2019, 2020, and 2021, University: 6th of October University.
2. Reinforced Concrete Graduation Project.
   Year: 2020, and 2021, University: Science Valley Academy.
3. Reinforced Concrete Graduation Project.
   Year: 2014, University: 15th of May High Institute.
4. Reinforced Concrete Structural Systems for Large Span Buildings Requiring Wide Un-obstructed Spaces- Exemplified By A Wedding Hall in Dammam.
   Year: 1999, University: King Faisal University.
5. Structural Design of High Rise Building Considering the Effect of Wind Load- Preliminary Study.
   Year: 2000, University: King Faisal University.

AUTHORED BOOKS:

1."Foundations of Structures According to American Codes"
   Dar El-Marefa Publishing Company, April 2021, Cairo, Egypt.
2."Tanks Examples-Oriented Reinforced Concrete Textbook According to ACI318, ASCE/SEI 7, ACI350.3, and ACI350"
   Dar El-Marefa Publishing Company, July 2020, Cairo, Egypt.
3."Examples Oriented Reinforced Concrete Text Book According to ACI318"
   Dar El-Marefa Publishing Company, 2019, Cairo, Egypt.

DESIGN EXPERIENCE:

Design of housing buildings, high rise buildings up to eleven stories, villas, ground and elevated tanks, small mosques, administrative buildings, swimming pools, limited wall bearing structures and small steel structure.

WORK EXPERIENCE:

2003-present Housing and Building National Research Center in Cairo, Egypt
Full time Professor in the area of reinforced concrete. The post involves:
-performing research in the field of structural engineering.

-participating in teaching some of the training courses offered by the center (Basis of Site Supervision, Criteria for Accepting the Different Construction Stages, Causes of Structural Faults and Methods of Repair and Egyptian Code for Reinforced Concrete Design and Construction).
-preparing technical studies regarding the safety of some structures (mainly residential buildings) and the methods of their repair.
-supervision for strengthening of structures.
-technology promotion, marketing, transfer, and implementation.

2020-2021 Science Valley Academy next to Obour, Egypt
Part time Professor in the Construction Engineering Department.
(taught courses: Reinforced Concrete 1 & Reinforced Concrete 3)

2015-2016 City of Culture and Science in 6th of October, Egypt
Part time Professor in the Construction Engineering Department.
(taught courses: Reinforced Concrete Tanks and Prestressed Concrete & Quality Control and Specifications)

2011-2013 Ministry of Housing in Riyadh, Saudi Arabia
Full time Expert in the area of Civil Engineering. The post involves:
-performing civil engineering designs for the projects of the ministry.
-performing revisions for the civil engineering designs (mainly structural drawings and sometimes architectural and planning drawings) of the projects of the ministry.
-acting as a project manager representing the owner in following up the running projects of the ministry.
-supervising junior engineers in performing their required duties.

2010-2010 Egyptian Russian University in Badr City, Egypt
Full time Associate Professor in the Construction Engineering Department.
(taught courses: Engineering Materials, Engineering Drawing, Mechanics of Materials 1, and Mechanics of Materials 2)

2009-2009 Arab Consulting Engineers (Muhram Bakhom) Office in Cairo, Egypt
Part time structural designer.

2007-2008 THE Consulting Office in Cairo, Egypt
Part time structural designer.

2005-2007 Hamza Associates Office in Cairo, Egypt
Part time structural designer.

2000-2002 6th of October University in 6th of October City, Egypt
Full time lecturer in the Construction Engineering Department.
(taught courses: structural analysis, materials engineering, reinforced concrete, materials laboratory, and construction courses)

1998-2000 King Faisal University in Dammam, Saudi Arabia
Full time lecturer in the Faculty of Architecture and Planning.
(taught courses: structural analysis, materials engineering, reinforced concrete, structure & form and technical graduation projects)

1997-1998 Different design evolvements including
1. major alteration to an existing timber house, which included the use of steel and timber.
2. design of steel ribbed structures.
3. carried out checks on the designs of some reinforced concrete structures.

1992-1994 University of New South Wales and University of Western Sydney in Sydney, Australia.
Part time tutoring and marking duties in the Civil Engineering Department.
(taught courses: structural analysis, materials engineering and engineering drawings)

1990-1992 The Consulting Engineering Office of Prof. El-Kafrawy in Cairo, Egypt.
Full time Structural Design Engineer. The post involved the design of different structures mainly made of reinforced concrete. Site visits were necessary to confirm the consistency with the designs.

SKILLS:

Familiar with a wide range of computer softwares (SAP2000, SeismoStruct, etc.).