

CURRICULUM VITAE

PROFESSOR, MAGDY ABDELAZIZ ZAHW
2018



Present Employment.

Professor: Dean, Elgazeera Higher Institute for Engineering and Technology (EGI), Almokatam, Cairo, Egypt.

Contacts.

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Education.

- **Ph.D.**, Highway Engineering, Thesis entitled "Development of Testing Framework for Evaluation of Rutting Resistance of Asphalt Mixes"., Carleton University, Ottawa, Ontario, Canada in coordination through Channel System with Al-Azhar University, Cairo, Egypt, 1996.
- **M.Sc.**, Highway Engineering, Thesis entitled "A Study of Constituents of Some Types and Grades of Asphalt Cement as a Cause for Rutting of Hot Asphaltic Concrete", Al-Azhar University, Cairo, Egypt, 1990.
- **B.Sc.**, Civil Engineering, Al-Azhar University, Cairo, Egypt, 1984.

Posts and Occupations.

- 2017-Now:** **Professor: Dean,** Elgazeera Higher Institute for Engineering and Technology (EGI), Almokatam, Cairo, Egypt.
- 2017:** **Professor: Vice Dean,** Elgazeera Higher Institute for Engineering and Technology (EGI), Almokatam, Cairo, Egypt
- 2016-2017:** **Professor, Chairman,** Civil Engineering Department, Elgazeera Higher Institute for Engineering and Technology (EGI), Almokatam, Cairo, Egypt.
- 2014-2016:** **Professor, Chairman,** Civil Engineering Department, Canadian International College (CIC), Shaikh Zayed Campus, 6th of October City, Egypt.
- 2009-2014:** **Professor,** at King Saud University, College of Engineering, Civil Engineering Department, Riyadh, KSA.
- 2003 –2009:** **Associate Professor,** at King Saud University, College of Engineering, Civil Engineering Department, Riyadh, KSA..
- 2001–2003:** **Assistant Professor,** at King Saud University, College of Engineering, Civil Engineering Department, Riyadh, KSA.
- 1997–2001:** **Assistant Professor,** Al-Azhar University, College of Engineering, Civil Engineering Department, Cairo, Egypt.
- Assistant Professor,** Ten of Ramadan Institute, Civil Engineering Department, Ten of Ramadan, Cairo, Egypt.
- 1994-1996:** **PhD student,** Carleton University, Ottawa, Ontario, Canada.
- 1990 – 1994:** **Lecturer,** Al-Azhar University, College of Engineering, Civil Engineering Department, Cairo, Egypt.
- 1986 – 1990:** **Demonstrator,** Al-Azhar University, College of Engineering, Civil Engineering Department, Cairo, Egypt.

Scientific and Professional Memberships.

- Chairman of the System and Control Committee, Elgazeera Higher Institute for Engineering and Technology (EGI), 2016 – 2017.
- Member of the Directors Board, , Elgazeera Higher Institute for Engineering and Technology (EGI), 2017
- Chairman of the System and Control Committee, Canadian International College (CIC), 2014 – 2016.
- Member of the Directors Board, Canadian International College (CIC), 2015-2016

- Member of the Department Council of Civil Engineering Department – College of Engineering - King Saud University - Riyadh, Kingdom of Saudi Arabia, 2001 – 2014.
- Member of the Quality Unit Committee (ABET – NCAAA) - Civil Engineering Department - King Saud university 2008 – 2013.
- Member of the Department Council of Civil Engineering - Faculty of Engineering - Al-Azhar University – Egypt, 1997 – 2001.
- Member of the Syndicate of Engineers - Cairo – Egypt, 1986 – till now.
- Convener and member of several committees and activities at the department of civil engineering, college of engineering, King Saud University:
 - Convener of Laboratories Commission, 2009 - 2011.
 - Member of Academic Accreditation Commission, 2010 - 2012.
 - Member of Annual Report Commission, 2009 - 2011.
 - Member of Media Activities Commission, 2009 - 2011.
 - Member of Laboratories Commission, 2004 - 2008.

Community Services.

Kingdom of Saudi Arabia 2001 – 2013

- Refereeing several research papers for local scientific journals
- Refereeing a research project sponsored by King Abdul Aziz City for Science & technology.
- Principal and second Investigator for several research projects granted by scientific research entities of King Saud University.

EGYPT, 1984 – 2001

- Participate in the field works of the Road network and Parking areas for the New Cairo Airport, General Nile Company for Roads and Bridges, 1984.
- Participate in the design and working Drawings of several highways projects, 1984-1996, Prof. A. BAHGAT Office:
 1. Rehabilitations of the Old Cairo Airport Runway (0/23), 1984-1985.
 2. Al-Sarab tourist Village, Northern Coast, 1986-1987
 3. Sama – Alarish Village, 1987-1988.
 4. Al-Dabaa – Almain Highway – four km sector, 1990-1991.
 5. The third and fifth quarters of new Damietta city, 1996-1997.
- Design and working Drawings of several projects, 1990-1997, Prof. M.K. ALSMNY Office:
 1. Tourisme Egyptian village, Al-kasr, Marsa Matrouh, 1990.
 2. Ain Shams faculty member's village, Marasa Matrouh, 1991.
 3. Al-Masoud tourist village, Aal-ahram desert, 1997.
 4. Concrete Design of Caribbean-Beach and Tropicana Villages , Hurgada, Mansour Amer

- Design and working Drawings of several projects, 1989-1992, Prof. Abdelbaqi. Ibrahim Office:
 1. New city of Minya, 1989.
 2. New industrial area in Aswan, 1990.
 3. Amun tourist village, Northern Coast, 1990.
 4. Ghazal tourist village, Northern Coast, 1991.
 5. Children's Park in Mekka, KSA, 1992.

- Design and working Drawings of roads network of the national cement factory in Beni Suafe, Prof. Mostafa Al-Ghamrawy Office, 1992.

- Design and working Drawings of Alnasr Tourist village, Northern Coast, Prof. Ali Raafat Office, 1990-1992.

- Design and working Drawings of several projects to the Urban Planning Authority - Ministry of New Communities - Arab Republic of Egypt, from 1996 – 2000.
 1. Renovation and put developed new proposals for the existing roads network for QENA City.
 2. Renovation and put developed new proposals for the existing roads network for RAS SEDR City.
 3. Renovation and put developed new proposals for the existing roads network for SHERBINE City.
 4. Renovation and put developed new proposals of the existing roads network for SOHAG City.
 5. Renovation and put developed new proposals of the existing roads network for AKHMIM City.
 6. Design and construction of the roads network for the NEW BAYAD AL_ARAB city.
 7. Design and construction of the roads network for the EDCO coastal city

- Two traffic studies for the establishment of two multi-story garages underground down ALJAZEERA Club and EGYPTIAN SHOOTING CLUB, BOT investment, Cairo governorate, 1999.

- Design and working drawings for the GOLDEN BEACH tourist village roads network, Burj Al Arab, northern coast, Engineering office consultant EHAF, 1998

- Design and working drawings for the roads network for NEW NAGA HAMMADY city, Al-Minya, Engineering unit - Faculty of Engineering - Al-Azhar University, 1998.

- Work studies for the establishment of Burj Al Arab - Assiut highway, BOT system, Engineering office consultant ENTRA, 1999.

Teaching Experience.

, Elgazeera Higher Institute for Engineering and Technology (EGI), 2016 - Now

- Teaching several under graduate courses in the field of civil Engineering:
 - Engineering Economics (General Education)
 - Highway and Traffic Engineering
 - Graduation Projects for Undergraduate Students

Canadian International College (CIC)-Cairo, 2013-2016

- Teaching several under graduate courses in the field of civil and architecture Engineering:
 - Reinforced Concrete and Foundations (Architecture Group).
 - Civil Drawing.
 - Engineering Economics (General Education)
 - Highway Engineering

King Saud University, Riyadh, KSA 2001 - 2013

- Teaching several under- and post-graduate courses in the field of Highway and Transportation Engineering:
 - Highway Engineering CE434.
 - Pavement Design CE437
 - Advanced Highway Engineering CE536
 - Geotechnical Engineering CE280
 - Graduation Projects for Undergraduate Students
 - Transportation Engineering CE436
 - Introduction to Transportation Systems CE433
 - Advanced Pavement Design CE537
 - Railway Engineering CE 454
- Teaching several under graduate General Education courses:
 - Computer Applications GE204.
 - Engineering Economy GE401
 - Engineering Economy GE403
- Supervised and co-supervised several Master, and Bachelor theses.
- Supervised of Graduation Projects for Undergraduate Students and Postgraduate students.

Al-Azhar University, Cairo, Egypt, 1996 – 2001

- Teaching several under graduate courses in the field of Highway and Transportation Engineering:
 - Highway Engineering
 - Transportation Engineering
 - Railway Engineering
 - Graduation Projects for Undergraduate Students "Highway and Airports Engineering".

Ten of Ramadan Institute, College of Engineering, Egypt, 1997 – 2000

- Teaching under graduate course in the field of Highway Engineering.

Zagazig University, College of Engineering (Shobra), Cairo, Egypt, 1999 – 2000

- Supervised of Graduation Projects for Undergraduate Students "Highway and Airports Engineering".

Funded Research Projects.

- The Principal Investigator of a research entitled " Evaluation of Highway Concrete Bridge Approach Slabs", Funded by the Research Center, College of Engineering, King Saud University, Riyadh, Saudi Arabia, (2011- Now).
- The Principal Investigator of a research entitled "New Proposed Models of Bridge Approaches", Funded by the Research Center, College of Engineering, King Saud University, Riyadh, Saudi Arabia, (2010-2011).
- The Principal Investigator of a research project No. 6/428 entitled "New Asphalt Mix Design Procedure Depends on Creep Performance and Rutting Resistance", Funded by the Research Center, College of Engineering, King Saud University, Riyadh, Saudi Arabia, (2008-2010).
- The Second Investigator of a research project No. 10/427 entitled "Development of Skid Resistance Asphalt Pavement Mix Design Procedure", Funded by the Research Center, College of Engineering, King Saud University, Riyadh, Saudi Arabia, (2006-2008).
- The Second Investigator of a research project No. 5/423 entitled "Evaluation and re-planning of vehicles Parking of King Saud University", Funded by the Research Center, College of Engineering, King Saud University, Riyadh, Saudi Arabia, (2001-2004).

Workshops.

- The first workshop on self-evaluation and quality assurance, November 2006, King Saud University, Riyadh, KSA.
- Week of Science and Technology, 1427 -2006, King Abdul Aziz City, Riyadh, KSA.
- Workshop entitled "Issues of university education: preliminary results of technical studies", organized by the draft plan the future of higher education (prospects), and the Ministry of Higher Education, 2006, under the auspices of King Fahd University of Petroleum and Minerals, Riyadh, KSA.
- Workshop entitled "school transportation", partnership between transport and education, 2006, Institute of Public Administration, Riyadh, KSA.
- The second workshop on Evaluation and Quality Assurance, 2007, King Saud University, Riyadh, KSA.
- Workshop (bumps industrial status quo and hoped), 1428 -2007, and the Ministry of Municipal and Rural Affairs, Riyadh, KSA.
- The second workshop entitled (the proposed strategy for the development and improvement of supervising the implementation of municipal projects), 1428 -2007, Prince Salman Social Center, Riyadh, KSA.

Publications.

1. Mohamed Zakaria, Mohamed El Refaey, **Magdy A. Zahw**, 2017. " *The use of Nano-Slag as and Additive to Improve the physico-Mechanical Properties of Asphalt Cement* ". Civil Engineering Research Magazine (CERM), Civil Engineering Department, Faculty of Engineering, Al-Azhar University, Nasr City, Cairo, Egypt, Vol. (39), No. (2).
2. Mohamed Zakaria, Mohamed El Refaey, **Magdy A. Zahw**, Eisa Salem, 2017. " *Study the Effect of Nano-kaolinite on the Properties of Bitumen and Asphalt*". Civil Engineering Research Magazine (CERM), Civil Engineering Department, Faculty of Engineering, Al-Azhar University, Nasr City, Cairo, Egypt, Vol. (39), No. (3).
3. **Magdy A Zahw** Basic Types of Roads and Pavement Types Seminar, **Arctic solutions**, Dubai, Sep 5-9, 2015.
4. **Magdy A Zahw** and Abdullah Al-Mansour, 2012 " Evaluation of Highway Concrete Bridge Approach Slabs", International Journal of Advanced Science and Engineering Technology, On line: ISSN 2225-9686; Vol.2, No.1.
5. **Magdy AbdelAziz Zahw**, 2009. "A New Criterion for Hot Asphalt Mix Design". Vol.2, No.3(2) (May 2009), PP255-270, ICASTOR Journal of Engineering, Indian Centre for Advanced Scientific and Technological Research.
6. **Magdy AbdelAziz Zahw**, 2009. "New Proposed Models of Bridge Approaches". Vol.2, No.3(2) (May 2009), PP199-207, ICASTOR Journal of Engineering, Indian Centre for Advanced Scientific and Technological Research.
7. **Magdy AbdelAziz Zahw**, 2008. "Long Term Performance of New Developed Asphalt Mixtures for Skid Resistance". Civil Engineering Research Magazine (CERM), Civil Engineering Department, Faculty of Engineering, Al-Azhar University, Nasr City, Cairo, Egypt, Vol (30)
8. **Magdy Abdel-Aziz Zahw**, 2008. "Improvement of Hot Mix Asphalt Performance by Using Combination of Different Aggregate Types". Civil Engineering Research Magazine (CERM), Civil Engineering Department, Faculty of Engineering, Azhar University, Nasr City, Cairo, Egypt, Vol. (30).
9. **Magdy A. Zahw** and Mohamed A Azab, 2007. "The Deflection Amplitude under Vehicle Axle Loads Using Elastic Layer System". 9th International Conference, Al Azhar University, Cairo, Egypt, Vol.(4).

10. Mahmoud A Al-Shourbagy and **Magdy A. Zahw**, 2007. " إستراتيجية التنمية العمرانية وأثر ذلك علي خصائص النقل بالمدينة العربية ". Civil Engineering Research Magazine (CERM), Civil Engineering Department, Faculty of Engineering, Azhar University, Nasr City, Cairo, Egypt, Vol. (29).
11. **Magdy A. Zahw**, Sayed A. Habib and Hozayen A. Hozayen, 2006. "*Modification of Dense Graded and Open Graded Friction Courses using Fibers*". Civil Engineering Research Magazine (CERM), Civil Engineering Department, Faculty of Engineering, Al-Azhar University, Nasr City, Cairo, Egypt, Vol. (28).
12. **Magdy A. Zahw**, Sayed A. Habib, and Mohamed A Refaey, 2006. "*Performance of Asphalt Mixes under Creep compression*". Engineering Research Journal, Helwan University, Faculty of Engineering, Mataria, Cairo, Egypt, Vol (107), PP C52-C65.
13. **Magdy Abdel-Aziz Zahw**, 2006. "*Evaluation of Bridge Pavement Transition Slabs*". Azhar University Engineering Journal (AUEJ), Published by Faculty of Engineering, Al-Azhar university, Cairo, Egypt, Vol. (9) No. (3), July 2006, PP 643-650.
14. Mahmoud A Al-Shourbagy and **Magdy A. Zahw**, 2006. "*Effect of Traffic Control Lights on the Flow in Urban Areas*". Civil Engineering Research Magazine (CERM), Civil Engineering Department, Faculty of Engineering, Al-Azhar University, Nasr City, Cairo, Egypt, Vol (28).
15. Sayed A. Habib and **Magdy A. Zahw**, 2005. "*Influence of Subgrade Soil Type and Saturation upon Pavement Response*". Civil Engineering Research Magazine (CERM), Civil Engineering Department, Faculty of Engineering, Al-Azhar University, Nasr City, Cairo, Egypt, Vol. (27) No. (2), April 2005, PP 293-305.
16. Sayed A. Habib, **Magdy A. Zahw** and Hozayen A. Hozayen, 2005. "*Development of Acceptance Measures for Long Term Performance of Boot Highway Projects*". Ain Shams University, Faculty of Engineering, Scientific Bulletin, Part 1 (Architectural and Civil Engineering), Cairo, Egypt, Vol (40) No. (4), December 31, 2005, PP 265-282.
17. Sayed A. Habib, **Magdy A. Zahw** and Hozayen A. Hozayen, 2004. "*Evaluation of Local Practices for Axle Load Configuration*". Civil Engineering Research Magazine (CERM), Civil Engineering Department, Faculty of Engineering, Al-Azhar University, Nasr City, Cairo, Egypt, Vol. (26) No. (3), October 2004, PP 1146-1158.
18. **M.A. Zahw**, 2003. "*Effect of Filler Type and Amount on the characteristics of Asphalt Mixes*". Civil Engineering Research Magazine (CERM), Faculty of Engineering, Al-Azhar University, Cairo, Egypt, Vol.(25)-PP. 319-330.
19. **M.A. Zahw**, 2003. "*Study of the Selected Type and Limit of Aggregate Gradation used in Asphalt*".

Mixtures". Civil Engineering Research Magazine (CERM), Faculty of Engineering, Al-Azhar University, Cairo, Egypt, Vol.(25)-PP. 308-318.

20. Bahgat A. and M. A. El-Refaey, **M.A. Zahw**, 2003. "Effect of Binder Constituents on its Temperature Susceptibility". Civil Engineering Research Magazine (CERM), Faculty of Engineering, Al-Azhar University, Cairo, Egypt, Vol. (24).
21. Bahgat A. and M. A. El-Refaey, **M.A. Zahw**, 2003. "Physico-Chemical Properties of Asphalt Cement and Their Impact on Rutting Resistance of Hot Asphalt Concrete Mixes". Civil Engineering Research Magazine, Faculty of Engineering, Azhar University, Cairo, Egypt, Vol 24.
22. **M.A. Zahw**, Bahgat A. and M. A. El-Refaey, 2003. "*Impact of using Natural Aggregates on The Performance of Hot Asphalt Concrete Mixes*". Civil Engineering Research Magazine (CERM), Faculty of Engineering, Al-Azhar University, Cairo, Egypt, Vol. (24)-PP1205-1212.
23. **M.A. Zahw**, Bahgat A. and M. A. El-Refaey, 2002. "*Aggregate Properties and its Impact on Rutting in Hot Asphalt Concrete Mixtures*". Civil Engineering Research Magazine (CERM), Faculty of Engineering, Al-Azhar University, Cairo, Egypt, Vol. (24)-PP. 1277-1285 .
24. **Magdy Zahw**, 1999. "*Influence of Temperature upon Mechanical Properties of Hot Asphalt Concrete Mixes*". Annual Conference of the Canadian Society for Civil Engineering, Rrgina, Saskatchewan, Canada, PP.91-100.
25. Sayed Abu Elela Habib & **Magdy Zahw**, 1998. "*Relating Asphalt Concrete Mix Design to Permanent Deformation*". Civil Engineering Research Magazine (CERM), Faculty of Engineering, Al-Azhar University, Cairo, Egypt, Vol. (20)-No. 4, PP.625-635.
26. **Magdy Abdel Aziz Zahw** & Sayed A. Habib, 1997. "*Minimization of Surface Deformation of Hot Asphaltic Concrete*". Civil Engineering Research Magazine (CERM), Al-Azhar University, Cairo, Egypt, Vol. (19)-No. 2, PP.338-345
27. S.A. Habib and **M. A. Zahw**, 1997. "*A Study on Evaluation of Permanent Deformation in Hot Asphalt Concrete Mixes*". International RILEM Symposium on Mechanical Test for Bituminous Mixes, May 14-16th in LYON / FRANCE, pp. 335-340
28. Aly Sherif, **M.A. Zahw**, M.K. El-Samny, & A.O. Abd El Halim, 1997. "*Development of Statistically based Models for Predicting Asphalt Rutting*". 5th International Conference, Al Azhar University, Cairo, Egypt, Volume (4), pp 470–479.
29. Aly Sherif, Mohamed Kassem El-Samny, **Magdy Zahw** & A.O. Abd El Halim, 1997. "*Laboratory and Statistical Evaluation of the Influence of Mix Parameters on Surface Rutting of Asphalt Pavement*".

Annual Conference of the Canadian Society for Civil Engineering, Sherbrooke, Quebec, Canada, pp. 351 – 362.

30. **Zahw M.**, A. Sherif, M.K. El-Samny & A.O. Abd El Halim, 1996. "*Statistical Analysis of rutting in asphalt concrete pavements*". Annual Conference of the Canadian Society for Civil Engineering, Edmonton, Alberta, Canada, pp. 243-250.
31. **Zahw, M.A.**, 1996. "*Development of Testing Framework for Evaluation of Rutting Resistance of Asphalt Mixes*". Ph.D. Al-Azhar University, Cairo Egypt.
32. **Zahw M.A.**, A. Bahgat, M.K. El Samny, and A.O. Abd El Halim, 1996. " *Optimum Shear Strength as Criterion for the Design of Asphalt Concrete Mixtures*". 4th International Conference, Al Azhar University, Cairo, Egypt.
33. Abd El Halim Abd El Alim, **Magdy Abd El Aziz Zahw**, Mohamed Kassem El Sammy , Ali Sherif "Improving the Rutting Resistance of Asphalt Mixes". Proceeding of the Canadian Technical Asphalt Association 41 282-293 (1996).
34. Abd El Halim Abd El Alim, **Magdy Abd El Aziz Zahw**, Abd El Gawad Bahgat y Mohamed Kassem El Sammy. Influence of types of asphalt binder on the tensile and shear strengths of asphalt mixes. Proceeding of the Canadian Technical Asphalt Association 40, 291-304, 1995.
35. **Zahw M.A.**, A.O. Abd El Halim, A. Bahgat, and M.K. El Samny, 1995. "*Asphalt Mix Design for Minimization of Rutting*". Second International Conference on Road & Airfield Pavement Technology, Singapore.
36. Abd El Halim A.O., **Zahw M.A.**, A. Bahgat, and M.K. El Samny, 1995. "*Influence of Types of Asphalt Binder on the Tensile and Shear strengths of Asphalt Mixes*". Canadian Technical Asphalt Association, Vol. (40).
37. **Zahw M.A.**, A.O. Abd El Halim, A. Bahgat, and M.K. El Samny, 1995. "*Asphalt Design for Control of Surface Deformation*". Annual Conference of the Canadian Society for Civil Engineering, Ottawa, Ontario, Canada, pp. 275-284.
38. Bahgat A., and **Zahw M.A.**, 1994. "*Effect of Chemical Constituents of Asphalt Cement upon their Temperature Susceptibility*". Paper Presentation at IRF Conference, Calgary, Alberta, Canada.
39. Bahgat A. and **Zahw M.A.**, 1993. "*Effect of Chemical and Physical Properties Asphalt Cement upon the Rutting Resistance of Asphaltic Concrete Mixes*". XII Congress Mondial IRF, Tomo II, Madrid, pp. 383-392.
40. **Zahw,M.A.**, 1990."A Study of Constituents of Some Types and Grades of Asphalt Cement as a Cause

for Rutting of Hot Asphaltic Concrete". M.Sc. Al-Azhar University.