

Curriculum vitae

Personal Information:

- **Name:** Ahmed Mohamed Metwaly Ibrahim Sawan.
- **Date of Birth:** 14/9/1991
- **Nationality:** Egyptian.
- **Gender:** Male.
- **Military Service:** (Exempted).
- **Address:** Sharkia, Egypt.
- **E-mail:** ahmedsawan1991@gmail.com & eng_ahmedsawan@yahoo.com
- **Mobile:** 01067902337

Academic Qualifications:

Pre-Ph.D., Civil Engineering, Constructions Engineering and Utilities department, Zagazig University, Egypt, January 2020.

Area of Specialization: Highway and Airport Engineering (Traffic, Pavement Materials, Design and Performance).

CGPA: (3.13/4)

M.Sc., Civil Engineering, Constructions Engineering and Utilities department, Zagazig University, Egypt, January 2019.

Area of Specialization: Highway and Airport Engineering (Pavement Materials, Design, Performance and Traffic).

Thesis Title:

"Finite Elements Performance Analysis of Asphalt Pavement Mixtures Modified Using Nano- Additives"

CGPA: (3.88/4)

B.Sc. of Civil Engineering,

Excellent with Honor, Public Works Department, The Higher Institute of Engineering, El-Shorouk Academy, Egypt, May 2013, (Second of my Civil Engineering class (650 students).

Gradation Project: Surveying, with **grade:** (Excellent).

Accumulated Grade: (6715 out of 7300), **Percentage:** (91.99%).

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Language Skills:

- **Arabic:** Mother Tongue.
- **English:** Writing: Very Good,
Conversation: Good.
 - (Level Ten) Test with degree very good from SESCO Center, Zagazig
 - (TOEFL) from Ain Shams University and Zagazig University.

Civil Engineering Skills:

- Highway Engineering. (Geometric and Structure).
- Construction of highway projects.
- Traffic Engineering.
- Transportation Engineering.
- Maintenance of highway.

Computer Skills:

- (ICDL Certificate) (Using the Computer and Managing Files, Word Processing, Spreadsheets, Presentation, Using Databases, Web Browsing and Communication, Concepts of IT).
- AutoCAD.
- SAP 2000.
- C++
- SPSS
- Surfer
- AutoCAD Civil 3D
- Synchro.
- Micro Pave.

Other Skills:

- **Grammar and Punctuation**
an online non-credit course authorized by University of California, Irvine and offered through Coursera.
- **Mastering bitumen for better roads and innovative applications**
an online non-credit course authorized by École des Ponts ParisTech and offered through Coursera.
- **Presentation Skills**
an online non-credit course authorized by udey

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Research Interests:

- Nano-and polymer Modified Asphalt binders and Mixtures.
- Use of recycled materials in highway construction.
- Characterization of asphalt and modified asphalt binder.
- Characterization of hot mix asphalt.
- Performance based specifications for highway construction.
- Pavement maintenance and rehabilitation.
- Mechanistic-Empirical Pavement Design.
- Long Term Pavement Performance.

Training:

Arab Contractors (Technological Institute of Construction Engineering and Management)	Summer Training Program GPA: Excellent
Arab Contractors Branch: Central and Eastern Delta	El -Qalubiya projects, GPA: Excellent

Experiences Work:

- Pavement condition index (PCI) report for paving in Al-Kafrawy road in 6th of October City (Arco-Civil for Engineering Consulting).
- Technical report for asphalt streets for Al-shams club at new cairo. (Arco-Civil for Engineering Consulting).

Academic Positions:

- (SH.A.) EL-Shorouk Academy (High Institute for Engineering)
Position: Teaching Assistant in Civil Engineering Department.
Period from September 2014 until February 2019.
- (SH.A.) EL-Shorouk Academy (High Institute for Engineering)
Position: Assistant Lecturer in Civil Engineering Department.
Period from February 2019 until now.

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Academic Experience:

Course	➤ Plane Surveying (1 st – Civil Year)
Course	➤ Engineering Surveying (2 nd – Civil Year)
Course	➤ Traffic and Transportation Engineering (3 rd – Civil Year)
Course	➤ Highway and Traffic Engineering (3 rd – Civil Year)
Course	➤ Highway and Airport Engineering (4 th – Civil Year)
Course	➤ Graduation Project (Highway and Airport Engineering) (4 th – Civil Year)

Academic Paper:

- **Al-Taher, M.G., Hassanin, H.D., El-gendy, M. F., and Sawan, A.M.**, “Improving the Performance of Asphalt Mixtures Using Nano Silica”, World Applied Sciences Journal, Volume (35), Issue (12), pp:2614-2621, 2017, ISSN 1818-4952, DOI: 10.5829/idosi.wasj.2017.2614.2621, December 2017, (SJR 2017=0.160).
- **Al-Taher, M.G., Hassanin, H.D., Ibrahim, M. F., and Sawan, A.M.**, “Investigation of the Effect of Adding Silica Fume on Asphalt Concrete Properties”, International Journal of Engineering Research, Volume (7), Issue (4), pp:48-55, ISSN 2319-6890(online), 2347-5013(print), April 2018.
- **Al-Taher, M.G., Hassanin, H.D., Ibrahim, M. F., and Sawan, A.M.**, “Comparative Study of Performance of Modified Asphalt Mixtures Using Different Traditional and Nano Additives”, International Journal of Scientific & Engineering Research Volume (9), Issue (3), pp: 1243-1250, ISSN 2229-5518, , March 2018.
- **Al-Taher, M.G., Hassanin, H.D., Ibrahim, M. F., and Sawan, A.M.**, “Finite Element Analysis of Performance of Asphalt Pavement Mixtures Modified using Nano Additives”, International Journal of Scientific & Engineering Research Volume (10), Issue (10), pp:166-172, ISSN 2229-5518, October 2019.

Career Objective:

- Seeking a Challenging Career in the Field of Public works engineering that enables me to pursue my education & professional background; enhance my skills and build-up a solid career.