

CURRICULUM VITAE

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Nationality: Egyptian

Date of Birth: 5/7/1975

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Marital Status: Married

Qualifications

- **Ph.D. in Mechanical Engineering (Power Mechanical), 2013.**
Mechanical Engineering Department, Faculty of Engineering, AL-Azhar University.
Thesis Title:-
"Performance of Diesel Engines Burning Alternative Fuels".
- **M.Sc. In Mechanical Engineering (Power Mechanical), 2008.**
Mechanical Engineering Department, Faculty of Engineering, AL-Azhar University.
Thesis Title:-
"Investigations on The combustion of Gaseous Fuels".
- **B. Sc. In Power Mechanical Engineering, 1999.**
Power Mechanical Engineering Department, Faculty of Engineering, Zagazig University.
Grade: Very Good with honor.
Project Grade: Excellent.
Project Title: "Effect of Fuel Additives on SO₂ Emission".

Employment

Researcher: - 2013 up to now.

Mechanical Engineering Dept., National Research Centre (NRC).

Assistant Researcher: - 2008 -2013.

Mechanical Engineering Dept., National Research Centre (NRC).

Researcher Assistant: - 2001 – 2008.

Mechanical Engineering Dept., National Research Centre (NRC).

Teaching Experience

- **Maintenance Workshops course, 2002 Up to now.**



Third year Mechanical Engineering (Power and Manufacturing), Faculty of Engineering, Banha University.

• **Internal Combustion Engines course, 2002 Up to now.**

Fifth year Power Mechanical Engineering, Faculty of Engineering, Banha University.

• **Mechanical Drawing course, 2006-2010.**

Preparatory year, Theba High Institute for Engineering-EL Maadi- Cairo.

• **Descriptive Geometry course, 2006-2010.**

Preparatory year, Theba High Institute for Engineering- El Maadi- Cairo.

Industrial Experience

Shoubra Company for Engineering Industries (Military 27), 2001 -2002

Maintenance Engineer for (Diesel and Petrol) Engines.

Research Interests

- Alternative fuels for Spark Ignition Engines.
- Alternative fuels for Compression Ignition Engines
- Production of Biodiesel derived from Vegetable oils.
- Simulation of Combustion processes in diesel and petrol engines.
- Measurement of performance parameters and exhaust emissions of petrol and diesel engines.

Training Courses

- 1- Society of Mechanical Engineers. 25-29/1/2003
(Uses and Economics of Natural gas).
- 2- Society of Mechanical Engineers. 27/9/2003-1/10/2003
(Pumps and Compressors Technology).
- 3- Society of Mechanical Engineers. 12-17/4/2008
(Hydraulic Automatic Control and its Applications).
- 4- Helwan Company for Diesel Engines, 31/8/2008-31/12/2008
- 5- National Research Centre, 1-5/2/2009
(Scientific Writing Test)
- 6- National Research Centre, 18-22/1/2009
(Foundations of Scientific Presentation)
- 7- National Research Centre, 8-12/2/2009
(Occupational Health and Safety)
- 8- National Research Centre, 8-12/3/2009
(Civil Defense)
- 9- Egyptian Centre for Technology, 6-8/7/2008
(LabView Basic Course)
- 10- Ain Shams University, 27/5/2009.
(TOEFL ITP Test score (477))
- 11- Nile Academy for Science (Mansura)

(TOEFL IBT Test score (470))

Computer Skills

- Advanced computer skills in Microsoft office (power point, word, excel), internet and network communications.
- Good experience in Visual Basic language, Hardware maintenance, Matlab and Autocad.
- ICDL Certificate (2009).

Foreign Language (English)

- **Reading:** Very Good.
- **Writing:** Very Good
- **Speaking:** Good.

List of Publications

1. A.El Fatih.Farrag, M. Saber Gad, "Investigations in Combustion of Hydrogen Enriched Natural Gas", Second International Engineering Conference on Engineering Sciences and Technologies, 12-14 November, 2005.
2. Farrag A.El-Fatih, El-Mallah A.Abd El Kader, Ali S.Mohammed, Gad M. Saber,"Experimental Investigations on the Combustion of Gaseous Fuels", Journal of Applied Sciences Research, Vol.6, No.12, pp.2105-2110, 2010.
3. Farrag A.El-Fatih, El-Mallah A.Abd El Kader, Ali S.Mohammed, Gad M. Saber,"Investigations on The Combustion Modeling of Gaseous Fuels", European Journal of Scientific Research, Vol.46, No.4, pp.563-573, 2010.
4. Farrag A.El Fatih, Gad M.S., "Effect of Fuel Magnetism on Engine Performance and Emissions", Australian Journal of Basic and Applied Sciences, Vol.4, No.12, pp.6354-6358, 2010.
5. S.M.Ibrahim, K.A.Abed A.ELFatih.Farrag, M.S.Gad , "Performance and Emission for Diesel Engines Burning Biodiesel Fuel", Journal of Al-Azhar University Engineering Sector (JAUES), Vol.9, No.30, pp.105-111, January, 2014.
6. S.M.Ibrahim, K.A.Abed, M.EL Bayoumy, M.S.Gad, "Theoretical Investigation of The Performance of Diesel Engine Fueled by Biodiesel", Journal of Al-Azhar University Engineering Sector (JAUES), Vol.9, No.30, pp.113-122, January, 2014.
7. S.M.A.Ibrahim, K.A.Abed, M.S.Gad, "An Experimental Investigation of Diesel Engine Performance Using Jatropha Biodiesel", World Applied Sciences Journal, Vol.31, No.6, pp.998-1003, March, 2014.

8. S.M.A.Ibrahim, K.A.Abed, M.S.Gad, "Experimental Investigation of Diesel Engine Performance Burning Preheated Jatropha Oil", World Applied Sciences Journal, Vol.31, No.7, pp.1231-1236, April, 2014.

Research Projects

- 1- Using Hydrogen and Natural gas as Alternative Fuels for Vehicles, National Research Centre, 2001-2004.
- 2- Using Biodiesel as an alternative fuel for Diesel Engines, National Research Centre, 2010-2013.
- 3- Development and Evaluation of engine performance operating with biodiesel, National Research Centre, in progress.
- 4- Biofuels for Diesel and Turbine Engines from Plant Oils, National Research Centre, in progress.
- 5- Manufacturing of Jojoba and Jatropha harvester by local materials, National Research Centre, in progress.

Published Articles

- M.S.Gad, "Fuel Magnet Reduces Diesel Engine Emissions", Journal of AIAM AL DIESEL, Vol.62, April-May, 2011.
- M.S.Gad, "Biodiesel as Alternative Fuel for Diesel Engines", Journal of AIAM AL DIESEL, Vol.59, November- December, 2008.
- M.S.Gad, "Nano Technology Application in Engine Performance Improvement", Journal of AIAM AL DIESEL, Vol.63, January, 2012.
- M.S.Gad, "Compressed Air As a clean Alternative Fuel for Vehicles", Journal of AIAM AL DIESEL, Vol.58, November, 2007.
- M.S.Gad, "Water Injection in Diesel Engines", Journal of AIAM AL DIESEL, Vol.57, March, 2007.
- M.S.Gad, "Effect of Diesel Fuel Additives on Engine Performance and Emissions", Journal of AIAM AL DIESEL, Vol.61, March- April, 2010.
- M.S.Gad, "Effect of Fuel Magnet on Engine Performance and Emissions", Egyptian Society of Mechanical Engineers Journal, Vol.123, June, 2014.

Participation in Scientific Conferences and Workshops

- 1- First International Conference on Green and Advanced Engineering Technologies, January 3-6, 2004, National Research Centre, Egypt.
- 2- Second International Conference on Advances in Engineering Sciences and Technologies, November 12-14, 2005, National Research Centre, Egypt.
- 3- Third International Conference on Engineering Sciences and Technologies, March 24-26, 2008, National Research Centre, Egypt.
- 4- Third Egyptian Tunisian Workshop on New and Renewable Energies, 10-June 11-12, 2013, National Research Centre, Egypt.

Reviewing Committee Membership

1- Energy Conversion and Management Journal.

Membership of the Supervision Committees

- Graduation projects for fourth year In Mechanical Engineering Department, Faculty of Engineering, Banha University.
- Eng.Hassan Muhammed Muhammed Mustafa, (Design of a biodiesel production system and the performance of a diesel engine burning the produced fuel), M.Sc. thesis, Mechanical Engineering Department, Faculty of Engineering, Al Azhar University, in progress.

Professional Associations

- Engineering Syndicate, Member.
- Society of Mechanical Engineering, Member.
- Egyptian Society of Engineers, Participant Member.
- Federation of Arab Engineers, Member.
- International Combustion Institute (Egypt section), Member.