

Resume of
Dr. Tarek Ahmed Abdou ABD-ALLAH

Manufacturing Engineering and Production Technology Department

RESUME

Name: Tarek Ahmed Abdou ABD-ALLAH



Education:

PhD **Specialization:** Mechanical Engineering, “Effect of Spark Characteristics on the Performance and Emissions of an Internal Combustion Engine Using Gasoline and Propane. An Experimental and Theoretical Study”.
Awarded by: Royal Military College of Canada (RMC), P.O. BOX 17000, STATION FORCES, KINGSTON, ONTARIO, CANADA, November 2004.

MSc **Specialization:** Mechanical Engineering, “Optimization of Petroleum Gas Fuel System Parameters for Vehicle Engine Using Computer.”

Awarded by: Military Technical College, Cairo, Egypt, December 1997

BSc **Specialization:** Mechanical Engineering (Automotive Engineering)

Awarded by: Military Technical College, Cairo, Egypt, June, 1991

Positions Occupied and work experience

- Lecturer at Automotive Engineering Department, Military Technical College, from July 2006 – Jan. 2010.
- Part-time lecturer at the Arab Academy for Science, Technology and Maritime Transportation, AAST – Mechatronics Department,
- Lecturer at the Canadian International College, CIC – Egypt (Canadian Higher Institute for Engineering and Management Technology).
- Research Assistant in the field of ignition and combustion 3D modeling with experimental validation, Mechanical Engineering, Royal Military College of Canada, from January 2002 – December 2005.

Post graduate activities:

On-going research in the field of 3-D modeling of ignition and combustion in order to study methods of improving the internal combustion engine performance, the use of alternative fuels and the reduction of pollutants.

Other fields of interest include:

- o Brake Control System Design, MTC.
- o Engine Control System Design, MTC.
- o Design of a Four Wheel Steering (4WS) System, MTC.
- o Four Wheel Steering (4WS) Control System Design, MTC.
- o Measurements of a Four Wheel Steering (4WS) System Characteristics, MTC.
- o Hybrid Electric Vehicle (HEV) Design and Control, MTC.

Lectured Courses:

A broad range of undergraduate level courses were lectured, including:

- o Principles of Design and Manufacturing Engineering – Fall 2014.
- o Mechanical Measurements – Fall 2014.
- o Engineering Drawing and Projections – Fall 2014.
- o Heating, Ventilation and Air Conditioning (HVAC) – Fall 2014, Spring 2015 and Summer 2015.

- o Heat transfer – Spring 2015.
- o Fluid Mechanics I – Spring 2015, Summer 2015.
- o Fluid Mechanics II – Spring 2015.
- o Finite Element Analysis – Spring 2015.
- o Engineering Drawings and Projection Course, Fall 2013 and Spring 2014.
- o Engineering Service of Automobiles I and II.
- o Vehicle Terrain Systems.
- o Environmentally Friendly Vehicles.
- o Advanced Automotive Systems.
- o Engineering Graphics.

Authored books:

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Current Position:

Lecturer at the Manufacturing Engineering and Production Technology Department, Modern Academy for Engineering and Technology in Maadi, Cairo, Egypt.

No of Published Papers		Supervised Thesis	
Last 5 years	Total	MSc	PhD
	4		

PUBLISHED PAPERS

The following are the papers published in journals and scientific bulletins.

1. Abd-Alla T., Pucher G.R., Bardon M.F. and Gardiner D.P., "Effects of Spark Characteristics on Engine Combustion with Gasoline and Propane", Society of Automotive Engineers (SAE) Transactions, Paper # (2003-01-3264) 2003.
2. Abd-Alla T., Pucher G.R., Bardon M.F. and Gardiner D.P., "Effects of Spark Characteristics on Engine Combustion with Gasoline and Propane", Proceedings of the Combustion Institute, (Canadian Section), 2003.