

# Curriculum vita

## Dr. Wael Abbas Mahfouz Mohamed

### **Academic Qualifications:**

- 1996 – 2001** : **B.Sc.** in Automotive And Tractors Engineering  
Helwan University, faculty of Engineering - mattaria
- **Graduation year** : **May 2001**
  - **Grades** : **Accumulative** **very good with honors.**  
**Project** **Excellent**
- 2002 - 2006** : **M. Sc.** Department of Engineering Mathematics and Physics,  
Faculty of Engineering, Cairo University.
- Thesis title: Developed Model for Optimal Control of  
Mechanical Vibrating Systems.
- 2008 - 2011** : **Ph. D.** Department of Engineering Mathematics and Physics,  
Faculty of Engineering, Mansoura University.
- Thesis title: Mathematical Modeling of Biodynamic Response-  
Characteristics of Seated Vehicle Driver Using  
Genetic Algorithms

## **Current and Previous Positions:**

- 2002 - 2006** : Demonstrator  
Engineering Physics and Mathematics Department,  
Faculty of Engineering-Mattaria  
Helwan University
- 2006 - 2011** : Lecturer Asistant  
Engineering Physics and Mathematics Department,  
Faculty of Engineering-Mattaria  
Helwan University
- 2011 till now** : Assistant Professor  
Engineering Physics and Mathematics Department,  
Faculty of Engineering-Mattaria  
Helwan University

## **Teaching Experience:**

### Undergraduate Courses:

- 2001 - 2003** : - Teaching Calculus, Algebra to Preparatory year students  
Faculty of Engineering - Helwan University.
- Teaching Numerical Analysis to and second year students  
Faculty of Engineering - Helwan University.
- 2001 – Present** : - Teaching Engineering Mechanics ( Statics) to Preparatory  
year students - Faculty of Engineering - Helwan University.
- Teaching Engineering Mechanics (Dynamics) " Particle Mechanics"  
to Preparatory year students - Faculty of Engineering  
Helwan University.
- 2002 - Present** : - Teaching Engineering Mechanics ( Dynamics of Rigid Body ) to  
first year students (Civel Engineering, Mechanical Engineering, and  
Automotive and Tractors Engineering Dept.)  
Faculty of Engineering - Helwan University.

## **Publications:**

- [1] **Abbas W.**, Abouelatta O. B., El-Azab M., and Megahed A. A., "Genetic algorithms for the optimal vehic4ele's driver-seat suspension design", Ain Shams Journal of Engineering Physics and Mathematics, Vol. 2, PP. 17-29, 2009.
- [2] **Abbas W.**, Abouelatta O. B., El-Azab M., Elsaify M., and Megahed A. A., " Optimization of biodynamic seated human models using genetic algorithms", SCIRP Journal of Engineering, Vol. 2, PP. 710-719, 2010.

- [3] **Abbas W.**, Abouelatta O. B., El-Azab M., and Megahed A. A., "Application of genetic algorithms to the optimal design of vehicle's driver-seat suspension model", Proceedings of the World Congress on Engineering 2010, Vol. II, June 30 - July 2, 2010, London, U.K.
- [4] **Abbas W.**, Abouelatta O. B., El-Azab M., and Megahed A. A., " Development of biodynamic seated human model in the vertical direction using genetic algorithms", [International Journal of Applied Mathematics and Physics](#), Vol. 2, PP. 11-19, 2010.
- [5] **Abbas W.**, Abouelatta O. B., El-Azab M., Elsaidy M., and Megahed A. A., " Optimal Seat Suspension Design Using Genetic Algorithms", Journal of Mechanics Engineering and Automation, Vol. 1, No. 1, PP. 44-52, 2011.

### **Language:**

**Mother tongue** : Arabic  
**First tongue** : English

### **Computer Skills :**

- A programming by Matlab package.
- A v.good user in Word 97 & 2000.
- A v.good user in Powerpoint 97& 2000.
- A v.good user in Excel 79 & 2000.
- A v.good user in Dos, Win98 & M, WinNt, Win2000 pro. And WinXp operating system.

### **Interests and activities:**

Hard work ability, I like use my hands and engineering skills in work, I like traveling through the world and the place of work doesn't matter for me so I accept a job at any where anytime and used to work in desert and mountains .

### **Hobbies:**

Traveling, running, swimming, computer, reading ,and chess.