

# ASHRAF ABD ELFATTAH ELBARBARY

## Experience

- Training
  - Aircrafts Factory, Aircraft Engine Maintenance Department, 1993, Helwan, Egypt.
  - Arabic Organization for Industrialization, 1994, Cairo, Egypt.
  - Madrid- Barajas Airport – Control & Observation Department, 1995, Madrid, Spain.
  - Aena Company (Aeropuertos de Espanoles y Navegacion Aerea), 1995, Madrid Spain.
  - Malaga-Airport, Engine workshop, 1995, Malaga, Spain.
- working
  - Assistant researcher, Faculty of Engineering, Cairo University, 1996, Giza, Egypt
  - Assistant lecture, 6-October University, 1996-1997, 6-October City, Egypt.
  - Almaza Airport, Engine workshop, 1997-1998, Cairo, Egypt.
  - Assistant researcher in Academy of Scientific Research and Technology, 1998-1999, Cairo, Egypt.
  - Assistant lecture in Faculty of Engineering in El-Matatia, Helwan University, 1999-2010, Ain Shams, Egypt.
  - Lecturer in Faculty of Engineering in El-Matatia, Helwan University, 2010-2011.
  - I am one of a team work from Cairo University and Academy of Scientific Research that construct a theoretical study for a Preliminary Design of Egyptian Satellite (Phase 1), 1997 until 2000, Egypt.
- Practical Experience
  - I am working as a lecturer in faculty of engineering in El-Mataria and participate in teaching Machine design, Mechanical vibrations, Theory of machines, Mechanics of rigid bodies, Stress analysis, Mechanical and Assembly drawing, Strength of material, Mechanical control, and Modern and optical Physics.

## Education

- Bachelor Degree: B.Sc. Aerospace Engineering Department.
- Graduate Date: 1996.
- Faculty: Faculty of Engineering.
- University: Cairo university.
- Project: Preliminary Design of Satellite.
- General Grade: Very good.
- Project Grade: Excellent.
- Master Degree: M.Sc. Aerospace Engineering Department.
- Master Subject: Modeling of Catalytic Reactors for Monopropellant Hydrazine Thrusters. (Monopropellant Hydrazine is used with porous catalyst particles in the propulsion system of satellite thrusters)

- Ph.D. Degree: Ph.D. Mechanical Design Department
- Ph.D Subject: Elastic and Gyroscopic Effects on Rotating Shafts in Magnetic Bearings. (Magnetic bearings support the rotating shaft with magnetic levitation rather than mechanical contact and they are used as a rotor vibrations damper)
- Current Job: Lecturer in Mechanical Design Department, Helwan University.

## Published Researches from Ph.D.

- Ashraf El-Barbary, L.A. Abd El-Latif, A.M.A. El-Butch, Eladl M. Rabeih, “ Magnetic Bearings Non-Linear Functions and Control of the Rotor Vibrations ”, Presented in Al-Azhar Engineering 11<sup>th</sup> International Conference, 21-23 December 2010, Cairo, Egypt.
- Ashraf El-Barbary, L.A. Abd El-Latif, A.M.A. El-Butch, Eladl M. Rabeih, “ AMB Non-Linear Functions and Gyroscopic Effects on Rotor Bearing System ”, accepted in 18<sup>th</sup> International Conference, July 4-10, 2010, Anchorage, Alaska, USA.

## Skills

### Computer skills:

- Very good knowledge of MS office application & using internet , Emails
- Very good knowledge of MatLab, Labview, and AutoCAD.
- Excellent Knowledge of windows and XP operating systems
- International computer driving license (ICDL).

### Language skills:

- Native language Arabic.
- Very good command of both written and spoken English.

## Contact persons

- **Prof. Dr. Lottfie Ahmed Abdel-Latif**  
Professor in Mechanical Design Engineering, Helwan University  
E-mail: Lotlatif@gmail.com
- **Prof. Dr. Alaa Mohammed Ahmed El-butch**  
Professor in Mechanical Design Engineering, Helwan University  
E-mail: Elbutch@aucegypt.edu
- **Associate Prof. Dr. Eladl Mohammed Rabeea**  
Professor in Mechanical Design Engineering, Helwan University  
E-mail: Eladlmr@yahoo.com

## Personal Data

- Date OF Birth: 21 March 1973
- Nationality, Religion: Egyptian, Muslim
- Marital Status: Marriage.
- Military service: Completed
- Address : 56 Masr Helwan El zeraee, Badr Tower, El Maadi, Cairo, Egypt
- Mobile: +2010-1456089 / +2 02 23592673
- E-mail: Ashrafelbarbary@yahoo.com

Reference furnished upon request

---