

Curriculum Vitae

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ACADEMIC HISTORY

- 11-Professor of Aerospace structure design and analysis in Aerospace Engineering 2012-current
- 10-Head of Department of Aerospace Engineering at Cairo University 2008-2012
- 9-Head of Aviation and Aerial Photography Division in NARSS (National Authority for Remote Sensing and Space Sciences in Egypt) 2004-2008
- 8-Deputy Head of Space Sciences Division in NARSS 2002-2003
- 7-Seretary General of Space science council- Academy of Science and Technology – Egypt 2000-2002
- 6- Professor of Structural Engineering Dept of Aerospace Engineering, Cairo Univ. 1997-present
- 5- Associate Prof. of Structural Engineering, Dept of Aerospace Engineering, Cairo Univ. 1991-1997

- 4- Assistant Prof. of Structural Engineering, Dept. of Aerospace Engineering, Cairo Univ. 1986-1991
- 3- Ph.D. in Aerospace Engineering, Dept. of Aerospace Engineering. Univ. of Cincinnati, USA 1983
- 2- M.Sc. in Aeronautical Engineering, Cairo University, Egypt 1979
- 1- B. Sc. in Aeronautical Engineering, Cairo University, Egypt 1974

WORK EXPERIENCE

- 12-Managing national aerial photography projects in NARSS. 2004-2009

- f- Lidar scanning of major tourist areas in Egypt (Luxor-Sakara-Pyramids)
- e- Experimental pilot project using Toposys Lidar scanning (100 Km²)
- d- Alameen and wady el natroun aerial photography (1400 Km²)
- c- Nile Delta and Nile valley aerial photography (46000 Km²)
- b- Alexandria governorate and city aerial photography (2000 Km²)
- a- Nile course aerial photography (4000 Km²)

- 11-Managing scientific projects in Aviation and Aerial Photogrametry division in NARSS 2004-2008
- 10-Managing research projects in Space Science division in NARSS 2001-2003
- 9- Professor of Structural design and analysis. ,Dept of Aerospace Engrg., Cairo Univ. 1997-present
- 8- Associate Prof. of Structural Engineering, Dept of Aerospace Engineering., Cairo Univ. 1991-1997
- 7- National Research Council (NRC) research associate at NASA Ames, Moffett Field, California USA Dec 1991-Jan 1992.
- 6- National Research Council (NRC) research associate at NASA Lewis, Cleveland, Ohio USA July 1988-August 1989.
- 5- Assistant Prof. of Structural Engineering , Dept of Aerospace Engrg., Cairo Univ. 1986-1991
- 4- Postdoctoral Research Associate at the University of Cincinnati, Ohio 1983-1985
- 3- Lecturer in the Evening College, Univ. of Cincinnati 1980-1983
- 2- TA at the Dept. of Aerospace Engineering, Univ. of Cincinnati, USA 1980-1983
- 1- TA at the Dept. of Aeronautical Engineering, Cairo University, Egypt 1974-1979

AWARDS

- 5- National Research Council Award for Associateship at NASA Ames at Moffett Field California USA to conduct research on Composites 1991-1992
- 4- National Research Council Award for Associateship at NASA Lewis at Cleveland, Ohio USA to conduct research fatigue of high temperature materials 1988-1989
- 3- Postdoctoral Award of the University of Cincinnati to conduct research on modelling of metals 1983-1985
- 2- University of Cincinnati Associateship and Assistantship to obtain PhD 1979-1983
- 1- Cairo University Associateship and Assistantship to obtain MSc (top 5% of the 1974 Class, College of Engrg.)

PI OF FUNDED ACADEMIC PROJECTS

- 1- "Development of Satellite Structural Technology, Funded by Academy of Science and Technology, Cairo, Egypt 2000-2002
- 2- "Design of 2D Pointing System 2001" Funded by NARSS, 2001
- 3- "Design of 3D airborne 3D Pointing System 2002" Funded by NARSS, 2002
- 4- "Using Earth Magnetic Field in Locating Position" Funded by NARSS 2003
- 5- "Prediction of Atmospheric Electric Phenomena" Funded by NARSS 2006

TEACHING EXPERIENCE

Undergraduate Courses

- 9-Fundamentals of structural analysis 2006-present
- 8-Airplane Design- 4th year Aerospace 1990-2001
- 7-Airframe Design- 4th year Aerospace 1987/88, 1990/91, 1992/93
- 6-Mechanics of Structures-3ed year Aerospace 1990/91
- 5-Mechanics of Structures-2ed year Aerospace 1993-2001
- 4-System Dynamics-2ed year Aerospace 1987/88
- 3-Lecturer for Graphics I, II
- 2-TA of Mechanics I,II,III 1980-1983
- 1-TA of Mechanics of Structures 1974-1979

Graduate Courses

- 4-Composite materials
- 3- Fracture Mechanics
- 2- System Dynamics
- 1- Finite Element Analysis