



Curriculum Vitae



1- Personal Data

Name : Ibrahim Ali Mustafa Gad

Gender : Male

Date of Birth : February 15 , 1951

Place of Birth : Meet Khodair, El Manzala, Dakahlia, Egypt

Nationality : Egyptian

Address : Power Mechanical Engineering Department, Faculty of Engineering, Zagazig University, Zagazig 44519, EGYPT.

Current Position : Associate Professor of Fluid Mechanics, Power mechanical - Faculty of Engineering - Zagazig University.

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Marital Status : Married have five Children

Major : Aeronautical Engineering

Fine : Fluid Mechanics

2- Education

- Ph.D. : January 1983, in Aeronautical Engineering (Aerothermodynamics - Aerothermiques) National Poly-Technical Institute de Toulouse
: “Institute National Poly-Technique de Toulouse” INPT Toulouse - France
- Ph.D. Title : Study and optimization of a confined swirling flow “Etude et optimization d'un écoulement tourbillonnaire confinée”
- M.Sc. : January 1979 in Aeronautical Engineering (Propulsion), National Higher School of aeronautic and space “Ecole Nationale Supérieure de l'aéronautique et l'espace” ENSAE - Toulouse - France
- M.Sc. Title : Study of flow around an electrical valve regulating cabin pressure
: “ Étude de l'écoulement autour d'une vanne électriques de regulation de pression cabine”
- B.Sc. : June 1974 in Aeronautical Engineering, Aeronautical Engineering Department, Cairo University, Egypt.
- B.Sc. Project Title : Computational of Cascade Characteristics by Conformal Mapping Method

3- Occupation

- 1974 - 1979 : Engineer in Research and Development Department,
: Manufacturer of Engines for Aircraft, the Arab Organization
for Industrialization Hellwan Egypt
- 1979-1983 : This Was For Preparing The M.Sc. And Doctor Engineer In
Toulouse France
- 1984 – 1989 : Lecturer in Power Mechanical Department, National
Polytechnics School, El Harrash, Alger, Algeria. “Ecole
National Ploytechnique”.
- 1989 – 2003 : Lecturer in Power Mechanical Department, Faculty of
Engineering, Zagazig University.
- 2003– Present : Associate Professor of Structural Engineering, Faculty of
Engineering, Zagazig University.

4 - Teaching Experience

First: for Undergraduate B. Sc. Students, Faculty of Eng., Zagazig University

- 1 Fluid Mechanics (1) - Mechanical Engineering Students
- 2 Fluid Mechanics (2) - Power Mechanical Engineering Students
- 3 Aerodynamics - Power Mechanical Engineering Students
- 4 Gas Dynamics - Power Mechanical Engineering Students
- 5 Thermodynamics (1), (2) - Mechanical Engineering Students
- 6 Energy Conversion Systems - Power Mechanical Engineering Students
- 7 Heat And Fluid Dynamics - Electrical Engineering Students

- 8 Heat And Fluid Machinery - Electrical Engineering Students
- 9 Engineering Mechanics - Power Mechanical Engineering Students
- 10 Engineering Mechanics - Electrical Engineering Students
- 11 Computational Methods Applications For Power Mechanical Engineering Students

Second: for Graduate Students (M. Sc.)– Power Mechanics

- 1 Advanced Fluid Dynamics - Power Mechanics
- 2 Advanced Aerodynamics - Power Mechanics
- 3 Advanced Gas Dynamics - Power Mechanics
- 4 Advanced CFD - Power Mechanics

Third: For students in other places

- 1 Engineering Mechanics - Complementary Studies of the Efficient Productive Faculty of Engineering, Zagazig university
- 2 Measurements and Laboratories - Complementary Studies of the Efficient Productive Faculty of Engineering, Zagazig university
- 3 Engineering Mechanics - Students of Agricultural Engineering Department, Faculty of Agriculture, Zagazig University
- 4 Engineering Mechanics For Students of Industrial Engineering Faculty of Education, Zagazig University
- 5 Renewable Energy (wind turbine and solar energies) Institute of Technology Tenth of Ramadan City
- 6 Engineering Mechanics For Students Of Institute Of Technology Tenth Of Ramadan City
- 7 Engineering Drawing and Descriptive Geometry Institute of Technology Tenth of Ramadan City

5 - Research Interests

Numerical and laboratory analysis of dynamics of separated air around single and multiple bodies applicants in the following areas:

- Time dependant aerodynamic forces acting on single and multiple bodies
- The use of wind to disperse pollution from urban street canyons
- Use of air inlet to perfect pollution in rooms
- Use the air jet to hover vehicles

6- Thesis Supervision

Eight, M. Sc. Students in power mechanics- awarded to four of them,
M. Sc. : two are preparing now for awarding, and the other traveled on a
scholarship, before awarded by few months.

Ph. D. : One only Ph. D. power mechanics but he traveled on a scholarship,
before awarded by three months nearly.

7- Languages

Arabic, My native language, I've some literary works

English, Proficiency in reading writing, and speaking

French, Fluent writing, reading and speaking

8- Society Membership

Member of Egyptian Syndicate for Engineers, 1983 – Present.

9 - voluntary social activities

In the field of youth and sport for nearly twenty years in my native status in a village Dakahlia – Meet Khodair - and still the chairman of a youth center in the village since about twenty years, by elections

10 - Publications

I. A. Gad “A Refined Model of Discrete Vortex Method Applied to Flow about Sharp Edged Bodies” Journal Of Engineering And Applied Science, Volume 48, No, 3, June 2001, PP. 545-564, Faculty Of Engineering, Cairo University, Egypt

N. M. Guirguis, G. B. Hanna, M. F. Kotkata, and, I. A. Gad
“An Investigation of Building Wind Interactions” Renewable Energy 15 (1998)
383-386 Congress V Florence, Italy.

I. A. Gad, R. M. EL Taher, and, R. M. Atia “Characteristics of Flow Interaction around Two Square Prisms Arranged Side-by-Side” Alexandria Engineering Journal Vol. 38 No. 4 A195-A211, July 1999, Faculty of Engineering, Alexandria University, Egypt.

Mohamed A. Aziz, Sayed A. Sayed, I. Aly Gad, and A. El Refai “Nucleate Pool Boiling from Plain and Enhanced Single Tube to R12 and R134a for Air-conditioning Evaporators” Alexandria Engineering Journal Vol. 38 No. 4 A273-A287, July 1999, Faculty of Engineering, Alexandria University, Egypt.

Ahmed M. E. El-Latif, R. M. El Taher, and I. A. Gad “Experimental Study of fluid flow and Heat Transfer around a Pair of Circular Cylinders in Staggered Arrangements” Alexandria Engineering Journal Vol. 38 No. 4 A213-A226, July 1999, Faculty of Engineering, Alexandria University, Egypt.

I. Gad and M. A. Saleh, “An Investigation of Ground Effect on a flying Flat Plate” Scientific Bulletin Part III: Mechanical Engineering and Physics & Mathematics, Faculty of Engineering Ain Shams University, Vol. 36, No. 3, September, 30, 2002

I. A. M. Gad , M. M. Nasief, S. S. Abdel Aaziz, and A. A. Osman "Modeling of Air Pollutant Dispersion in Street Canyons in Cross Wind"
13th International Conference on Aerospace Sciences & Aviation Technology
ASAT- 13, May 26 – 28, 2009, E-Mail: asat@mtc.edu.eg Military Technical College, Kobry Elkobbah, Cairo, Egypt