

Ghada Abd El-Zaher El-Saeed Ali El-Gamal

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CURRENT POSITION: Assistant Professor at Mechatronics Engineering Department,
Egyptian Chinese University

EDUCATION:

Ain Shams University Faculty of Engineering

2019 Ph.D. in mechanical power engineering.

Thesis Title: Investigation of Sharp Corners' Jet Flames

2013 Masters of Science in mechanical power engineering.

Thesis Title: Effects of Cross Flow and Double Swirl on Vitiated Co-Flow Jet Flame.

2002-2007 B.Sc. in Mechanical Power Engineering, (attain Good)
(73.32%).

Graduation project: Study of Flame Stability in Flare Systems, (attain
Distinction).

Schooling

Saint Fatima language school- Nasr city, Cairo.

Promoted in 2002 (attain 95.5 %).

WORK EXPERIENCE:

[SINCE SEPTEMBER 2024]

Egyptian Chinese University

Position: Assistant Professor at Mechatronics Engineering Department, [Full-Time]

Administrative Work: Head of Quality Assurance Unit at the Faculty of Engineering
Technology, Egyptian Chinese University.

[From September 2014 to August 2019]

Heliopolis University

Position: Assistant Professor at Mechatronics Engineering Department, [Full-Time]

Courses taught:

- Sensors and measurements
- Fluid Mechanics
- Material Science
- Technical Installations
- Heat and Mass Transfer
- Thermodynamics
- Mechanics 1, 2
- Engineering Drawing
- Production Engineering
- Mechatronics B.Sc. Project

Administrative Work:

- Head of Quality Assurance Unit at the Faculty of Engineering Heliopolis University
- Head of Staff Training Committee
- Responsible for the Standard of teaching, learning and Evaluation in Quality Assurance
- Responsible for the quality tasks in mechatronics engineering program
- Internal Auditor for quality files in faculty
- Member of Distance Learning Committee
- Greening The Desert (GTD) project coordinator
- Secretary of the Faculty of engineering Board
- Community Services activities related to solid waste management.
- Preparing Teaching and Learning Strategies
- Participating in the strategic plan of the faculty
- Preparing Hybrid teaching self-assessment file for quality requirements

[From September 2014 to December 2018]

Heliopolis University

Position: Assistant Lecturer, [Full-Time]

Courses taught:

- Sensors and measurements
- Technical Installations
- CAD/CAM
- Fluid Mechanics
- Mechanics 1&2
- Solar Thermal Energy Systems
- Engineering Drawing
- Heat and mass transfer
- Production Technology
- Thermodynamics
- Applied Control Technology

- Developing the e-learning courses in GIEP project
- Participated and certified as a trainer from BFI in the TOT program of Solar Thermal Heaters under ADA Project, which is further used in teaching Solar Thermal Energy Systems course
- Participated in the Children University Phase I, and III

[From November 2007 to August 2014]

New Cairo Academy

Position: Teaching Assistant, [Full-Time]

Courses taught:

- Technical Installations (Air Conditioning & Fire Fighting).
- Engineering Drawing I & II.
- Production Technology.
- Thermo-dynamics.
- Mechanics I & II.

[From June 2009 to February 2010]

ABB for power systems and technology

Position: Mechanical Sales Engineer in the department of Sales and Proposals

[Full Time]

Tasks Carried Out:

- Studying Mechanical projects from point of view of HVAC, Fire Fighting and Plumbing.
- Preparing technical and financial offers.
- Dealing with suppliers and consultants.
- Updating the data base of the department and organizing the projects.

Projects Executed: El-Hikma Pharma II (6th of October city)

SCIB Paints Factory (6th of October city)

U-Flex Factory for Plastic Film (6th of October city)

ALMACO for transformers (Badr City)

Agiba Petroleum Company

Spin Alex (Alexandria)

ENPC EAgrium (Damietta)

[From February 2009 to May 2009]

TAB company for testing and balancing of Central Air Conditioning Systems

Position: Technical Office Engineer.

Tasks Carried Out:

- **Technical Office Works Of The Following Projects:**

ECG Building (Smart village)

Amarante Nile Hotel

AUC New Campus Building (5th settlement New Cairo)

Vodafone C3 (Smart Village)

MB1 Smart Horizon (Smart Village)

- **Itemization, Pricing & giving Offers OF HVAC Projects from point of View of Pricing and Balancing.**

[From September 2008 to July 2009]

Workers University

Position: Instructor, [Part-Time]

Courses taught:

- Engineering Drawing.
- Production Technology.

Trainings and Certifications:

[Summer 2006]

EGAT the Egyptian German Air Treatment co., Studied the designing and manufacturing of central air conditioning.

[Summer 2005]

- ELNASR FOR CARS PRODUCTION, in the maintenance sector, in order to get more affected by the working field, with the labors and also with the customers.
- ALWAYLER FARID PUMPS, and was efficient in the structure and assembly of centrifugal and axial pumps.

Skills :

Computer skills

- Operating Systems: Win XP/7/8/10
- Use Programs: Microsoft office, Adobe Photoshop & Internet Tools
- Auto-CAD
- Inventor
- Solid Works
- ANSYS – CFD

Publications:

[1] M. A.Nosier, M.M.Kamal, M.A.Khalek, A.M.Hamed; G. El Gamal, *Effect of Sharp corners' Nozzles on Inverse Jet Diffusion Flames; SSRG International Journal of Mechanical Engineering (SSRG - IJME) – Volume 5 Issue 9 – September 2018.*

[2] M. A.Nosier, M.M.Kamal, M.A.Khalek, A.M.Hamed; G. El Gamal, *Numerical modeling of Inverse Jet Diffusion Flames Using Sharp Corners' Nozzles, Proceedings of D13. Thirteenth International Conference of Fluid Dynamics , 21-22 December, 2018, Regenberger Hotel El Tahrir, Cairo, EGYPT*

[3] G.Elgamal, M.M.Kamal, and A.Morgan , *Swirl and Cross-Flow Effects on Vitiated Jet Flames; Combustion Science and Technology, Volume 185, Issue 2, 2013.*

<https://doi.org/10.1080/00102202.2012.718007>

[4] G.Elgamal, M.M.Kamal, and A.Morgan, *Swirl and Cross-Flow Effects on Vitiated Jet flames; Journal of Al Azhar University Engineering Sector, Volume 8, No. 26, 2013,63-77.*

Supervision on Post Degrees:

- Master of Engineering in New and Renewable Energy Engineering – Jamila in the faculty of engineering Ain Shams University “Conversion Biomass Energy into Fuel by Thermochemical Technology” .. Student : Sara Saleh Mohamed
- Master of Engineering in New and Renewable Energy Engineering – Jamila in the faculty of engineering Ain Shams University “Conversion Biomass Energy into Fuel by Biochemical Technology” .. Student : Nourhan Ahmed Ibrahim

Courses:

- ABB Leadership Challenging Program
- ABB Anti-bribe
- Academic Standards (Quality)
- Writing Self-Assessment (Quality)
- Teaching and Learning Strategies (Quality)
- E-learning Training at RWTH Aachen University – Germany 2014
- Solar thermal water heaters, TOT/ADA
- TRNSYS 16/17

Conferences:

- The fifth workshop of patent innovation at the Arab League
- ICFD13 – the Thirteen’s International Conference of Computational Fluid Dynamics
- Sustainable Smart City online conference, organized by IEEE/IES Egypt, IEEE IES Guadalajara, Mexico Chapters and IEEE IAS/PELS/IES austrian chapter, Wednesday Dec.9th 2020

Licenses and Skills:

- Car license
- ICDL
- TOEFL
- Teaching to partially deaf students
- Using Teaching Platforms (Moodle, LMS,EKB ..)

References :

Prof. Abdel Halim Mahmoud Bassiuny	Emeritus Professor of Mechatronics and Control, Helwan University, Former Dean, Faculty of Engineering Heliopolis University
Prof. Mahmoud Abdel Rasheed	Emeritus Professor Mechanical Power Dept. Ain Shams University
Prof. Rasha Mohamed Saeed El Khloy	President of Egyptian Chinese University
Assoc. Prof. Mostafa Abdel Khaleq	Mechanical Power Dept. Ain Shams University

Required references upon request

