

Essam Eldin Mouguib Saleh



C.V.

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-----OBJECTIVE-----

This resume certifies the professional expertise along the past years since graduation and the successive career development through appointed tasks and posts. I am seeking to continue the optimum utilization of my strengths.

-----EDUCATION-----

- BSc. in Aerospace Engineering – Military Technical College, Cairo, Egypt, Jul 1991.
- MSc. in Mechanical Power Engineering – Faculty of Engineering, Cairo University, Giza, Egypt, Apr 2004.
- PhD in Mechanical Power Engineering – Faculty of Engineering, Cairo University Giza, Egypt, Oct 2011.

-----PERSONAL DATA-----

- **Date of Birth**: Nov 17, 1968

- **Marital Status**: Married

- **Nationality**: Egypt.

-----PAST EXPERIENCE-----

1. *Mechanical Engineer at the Egyptian Air force (1991-2013)*

2. *Full-Time Lecturer at Thebes Higher Institute of Engineering (2013-Till now)*

- Teaching the following main courses:

2013-Till now

- Engineering Drawing & Projection-1 (Preparatory year- 1st term).
- Production Engineering (Preparatory year- 1st term).
- Civil Drawing (1st year- Civil Eng.- 1st term).
- Engineering Drawing & Projection -2 (Preparatory year-2nd term).
- Fluid Mechanics (1st year- Civil Eng.- 2nd term).
- Mechanical Engineering (2nd year- Civil Eng.-2nd term)
- Mechanical Engineering (2nd year- Communications & Computer Eng.- 2nd term)

2013-2018

- Engineering Mechanics-1 (Preparatory year- 1st term).
- Engineering Mechanics-2 (Preparatory year- 2nd term).
- Strength of materials (1st year- Communications & Computer Eng.-1st term)
- Hydraulics (3rd year- Civil Eng.- 1st term).
- Environmental Engineering (4th year- Civil Eng.- 1st term).

3. *Deputy Lecturer at Faculty of Engineering- Nahda University (NUB) (2014-2017)*

- Teaching the following main courses:

- Engineering Drawing-1 (Preparatory year-1st term).
- Monitoring & Quality Control Systems (Preparatory year-1st term).
- Production Engineering (Preparatory year-Summer term).

4. *Member of R&D committee at Thebes Higher Institute of Engineering*

5. *Part-time Mechanical Design Engineer*

Performing the following tasks, including design drawings as well as shop drawings:

- Design of HVAC systems.
- Design of Automatic Fire Fighting systems.
- Design of Plumbing systems.

as follows:

- 2001-2012** Design Engineer at Engineering Consulting & Design Group (ECDG), Dokki, Giza, Egypt.
2013-Till now Head of Mechanical Works Department, GD&P-Egypt (Architecture, Engineering & Consulting), Maadi, Egypt.
2016- 2017 Head of Mechanical Works Department, TEBA United for Trading & Engineering (Electrical Contracting), Nasr City, Egypt.

-----**SCIENTIFIC EFFORT**-----

- **Graduation Conclusion Project:**
 - "*Low Cycle Fatigue and Prediction of Fatigue Crack Initiation in a Notched Aluminum Alloys Specimens*", B.Sc. Conclusion Project, Military Technical College, Cairo, Egypt, Jun 1991.
- **Thesis Author**
 - "*Heat Transfer Enhancement and Friction Factor Behavior inside a Rectangular Duct Equipped with transverse perforated Baffles Fixed on Two Opposite Walls*", M.Sc. Thesis, Faculty of Engineering, Cairo University, Giza, Egypt, Apr 2004.
 - "*Modeling and Simulation of Fire Suppression Systems in High-Bay Warehouses*", PhD thesis, Faculty of Engineering, Cairo University, Giza, Egypt, Oct 2011.
- **Papers Author**
 - "*Comparison of the Thermal Performance of Perforated Baffles and Ribs in an HVAC Heat Exchanger*", 10th Exhibition of the ASHRAE Cairo Chapter, June 17-21, 2004, Cairo, Egypt.
 - "*Study on Heat Transfer Enhancement and Friction Loss in a Duct with Perforated Baffles*", 11th International Conference on Applied Mechanics and Mechanical Engineering (AMME), Nov 23-25, 2004, Military Technical College, Cairo, Egypt.
 - "*Numerical Simulation of Warehouse Fire Suppression*", International Journal of Advanced Engineering Science and Technologies (IJAEST), Vol. 5, No. 2, Apr 2011.
- **Books Author**
 - "*Simulation of Fire Suppression Systems in High-Bay Warehouses*", A CFD Simulation Study, LAMBERT Academic Publishers, Germany, ISBN 978-3-659-11243-0.
- **International Conferences Presentations**
 - "*Modeling and Simulation of Fire Suppression Systems in High-Bay Warehouses*", 11th Annual Conference: Fire Related Research and Developments (RE11), Nov 17, 2011, Institution of Fire Engineers, Moreton-in-March, Gloucestershire, UK.
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- **Experimental Research**
 - Design, construction and operation of experimental test rigs built for the purpose of studying the heat transfer enhancement and friction loss decreasing methods, Mechanical Power Lab, Faculty of Engineering-Cairo University, Jan 2001-Dec 2002.
 - Installing and controlling the temperature variations, flow velocity and pressure drop measuring instruments of such test rigs.

-----**PERSONAL SKILLS**-----

- Hard work and appreciates teamwork spirit.
- Ability to work under pressure.
- Good communication skills.

-----**SPOKEN LANGUAGES**-----

- **ARABIC** : Native language
- **ENGLISH** : Very Good (TOEFL score 560)
- **FRENCH** : Very Good (Primary & Higher School: *Collège de La Salle, Cairo, Egypt*)

-----**COMPUTER SKILLS**-----

- **General Skills:**
 - ACAD 2017
 - MS Office
- **Scientific Skills:**
 - Computational Fluid Dynamics Package FLUENT 6.2.16
 - Model Builder GAMBIT 2.2.30
- **Mechanical Works Packages:**
 - Hourly Analysis Program HAP 4.20 a
 - Duct Seizer 6.4
 - Carrier My Comfort
 - Elite Fire 6.0.238
 - Plumbing and Firefighting Gases Calculation
 - Pipe Flow Expert

-----**THANK YOU**-----

*With my best regards & great respect
Essam Moughib*