



**Mona Ahmed Awad Soliman**  
**Assistant professor**  
**MECHANICAL DESIGN ENGINEERING**

Dr. Mona Awad assistant professor of Mechanical design engineering, Delta higher institute for engineering and technology, in 2017. Dr. Mona graduated from the production engineering and mechanical design department of Mansoura university with B.Sc. , M.Sc. , and PhD in 1997, 2005, and 2015 respectively. She joined production engineering and mechanical design department , faculty of engineering , Mansoura university as a demonstrator from 1997 to 2004. She joined to Misr higher institute for engineering and technology as an lecturer from 2009 to 2014. She joined to Egyptian worker university as an assistant professor in 2015. And finally joined to Delta higher institute in 2017 till now as an assistant professor of mechanical design engineering. Dr.Mona taught many undergraduate mechanical engineering courses as engineering drawing , manufacturing processes , strength of materials, computer applications and simulation. She published many papers in different mechanical engineering fields. Her researches interested in fracture mechanics and finite element analysis such as analysis of composite material leaf spring , analysis of fgm material and its application in mechanical component ,vibration analysis of car suspension system , fatigue life estimation , crack growth & arresting methods.

CURRICULUM  
VITAE

PERSONAL  
INFORMATION

- Name: **Mona Ahmed Awad Soliman**
- Nationality: **Egyptian.**
- Religion: **Muslim.**
- Date of Birth: **7-11-1974.**
- Marital Status: **Married.**
- Number of children : **3**
- **ORCID iD:** <https://orcid.org/0000-0002-7550-695X>
- **Web of Science Researcher ID :**AAZ-7052-2021
- <https://publons.com/researcher/1520418/mona-ahmed-awad>
- [https://new.edmodo.com/profile/dr-mona\\_source=profile\\_card](https://new.edmodo.com/profile/dr-mona_source=profile_card)
- <https://www.researchgate.net/profile/Mona-Awad>

Academic  
Qualifications:

- PhD in mechanical design Engineering , production and mechanical design Engineering El-Mansoura University, 2015. The title of PhD thesis " New Crack Arresting Methodology Using Structural Optimizing Techniques
- M.Sc. in mechanical design Engineering , production and mechanical design Engineering El-Mansoura University, 2006. The title of M.Sc. thesis " The effect of active damper on vehicle vibrations"
- B.Sc. in production Engineering , production and mechanical design Engineering El-Mansoura University, 1997, with general grade of Good.  
The Graduation Project " Integrated CAD/CAM Software for Forming Dies" with grade of Excellent.

**SUMMARY OF**  
**EXPERIENCES**

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- Teaching the following courses:-
    - ❖ Engineering Drawing
    - ❖ Manufacturing processes
    - ❖ Strength of material
    - ❖ Theory of machine2 (Mechanical Vibrations)
    - ❖ Fracture mechanics
    - ❖ Principles of Manufacturing Engineering
    - ❖ Monitoring and Quality Control
    - ❖ Engineering Drawing &projection2
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WORKING

EXPERIENCES

- ❖ **Assistant professor** Delta Higher Institute for Engineering & Technology ,2017 till now
- ❖ **Assistant professor** Egyptian Workers university at Mansoura , 2016
- ❖ **Lecturer Assistant.** At M.E.T (Misr Engineering & Technology), 2009-2014
- ❖ **Researcher Assistant** El-Mansoura University, Faculty of Engineering, Production and Mechanical Design Engineering Dept.

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PUBLISHED

PAPERS

1. Hedia, Hassan S.; Almas, Majid A.; Attar, Hassan M.; Al Thobiani, Faisal; Soliman, Mona A.; Hedia, Mohammed H., "Mechanical behavior of carbon nanotubes reinforced polymer", Materialpruefung/Materials Testing, 2024 | Journal article  
DOI: 10.1515/MT-2023-0187
2. Mona Awad and Marwa Eid, "Optical Character Recognition System for Digit Recognition Using Deep Learning", Journal of artificial Intelligence and Metaheuristics (JAIM), 2023-11-15 | Journal article | Formal analysis, DOI: 10.54216/JAIM.060102
3. Mona Awad, Marwa M. Eid, "Optical Character Recognition System for Digit Recognition Using Deep Learning", Journal of Artificial Intelligence and Metaheuristics (JAIM), Vol. 06, No. 01, PP. 18-26, 2023
4. Ibrahim H. Mohamed , Amro A. Abd ul-Razik, Mona A.Awad, "EFFECT OF CASTOR OIL AS A LUBRICANT ON 2SHAPE ROTARY INSTRUMENTS", Mansoura Journal of Dentistry 2021;8(31):26-30.
5. Mona Ahmed Awad, "Reducing plastic zone ahead of crack tips by reshaping stop hole", International Robotics & Automation Journal, Volume 3 Issue 6 - 2017
6. M.Awad, "Software for Optimizing Stop Hole Shape", J Appl Mech Eng 4: 176. doi:10.4172/2168-9873.1000176
7. M.Awad, " Software for optimizing stop hole shape ", accepted for OMICS 2nd international conference on Industrial engineering , Dubai, November 16-18, 2015
8. M.Awad, O. Abuellatta, and M.Shabara, "Full-Car Active Suspension Control Based on Electrorheological and Magnetorheological Damping Models", 5th international Engineering Conferences, Mansoura University, Mansoura, Egypt , M187-M199 March 2006.
9. M.Fanni, N.Fouda, M.Shabara, and M.Awad, "New Crack Arresting Methodology Using Structural Optimizing Technique", Mansoura Engineering Journal, (MEJ), Vol. 39, Issue 4, December 2014, DOI: 10.21608/BFEMU.2020.102841 ,ISSN 1110-0923
10. M.Fanni, N.Fouda, M.Shabara, and M.Awad, "New Crack Stop Hole Shape Using Structural Optimizing Techniques", Ain Sham Engineering Journal Hosted by Elsevier, March 2015

**TECHNICAL**  
**EXPERIENCES**

- ANSYS APDL
- ANSYS workbench
- MATLAB package
- Solid work
- AUTOCAD
- MS office (word-Excel-PowerPoint, ..)

**TRAINING**  
**COURSES AND**  
**WORKSHOPS**

- Crisis management and negotiation Accredited by the Computer Center of Al-Azhar University 2021
- Certified Technology for preparing female leadership cadres from the board of the Arabic group for studies September 2021
- Certificate of attendance of “Knowledge Management and Digital Transformation” Naseej Academy, November , 2021
- Certified Digital Trainer Preparation Expert from Computer Center, Al-Azhar University 2021
- Certified preparing the certified digital trainer (TOT) from the board of the Arabic group for studies ,Computer Center, Al-Azhar University 2021
- September 2021
- Certified trainer of digital transformation Communication and presentation skills from General Assembly for Organization and Administration Accredited by the Computer Center of Al-Azhar University2021
- Participation and contribution to the second Safety International conference 23-25 sept 2021
- Certified trainer of Risk management from BYTNA 17sept. 2021
- Attendance of IET webinar, Research Tips; Academic Writing and publishing Standards , 22sept 2021
- Attendance of “Accreditation requirements, e-learning practices and scientific content “, Naseej Academy2021
- Attendance of “ Literature Discovery using Scopus : Ad”, researcher academ 14 sept 2021at Egyptian knowledge bank
- Attendance of” Managing Citations using Mendeley”, researcher Academy , Egyptian knowledge bank, 28sept.2021s
- Attendance of “Selection of materials based on their properties and shapes” Chemical Engineering Club at King Abdulaziz

## University2021

- Attendance of IET webinar , “ Engineering for sustainable Development “ , sept. 2021
- Attend and completed training course “ google classroom training workshop “ , faculty of engineering . Al-Azhar university , Qena, Egypt , 8-9 july 2020
- Attend and completed training course on Managing research teams, faculty and leadership development center at university development center – Mansoura university
- Attend and completed training course of Effective teaching and learning strategies for colleges and institutes of higher education .National Authority for Education Quality Assurance and Accreditation

## LANGUAGES

- Arabic: Native Language.
- English: V. Good.

## CONTACTS :

- TEL. : 01023900933
- Mail. : dr.mona711@gmail.com
- linkedin.com/in/dr-mona-awad-828808109
- [https://orcid.org/ 0000-0002-7550-695X](https://orcid.org/0000-0002-7550-695X)
- Web of Science Researcher ID :AAZ-7052-2021
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