



Tarik Mohamed Tawfeek

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Career Profile

An experienced **Associate Professor** with excellent background in mechanical engineering.

Computing skills

- Proven experience in Elearning with Blackboard, moodle and MS Teams.
- Peer reviewer and Online Facilitator with QM USA for Elearning Courses.
- Excellent knowledge of AutoCAD 2D & 3D and Solidworks drawings & modeling.
- Programming Proficiency with Matlab and GRASP package.
- Very good experience in geometric modeling & CNC Machine.
- Excellent background in Solidworks, Modeling, Simulation and sheet metal working.
- Very good Technical Drawing skills.
- Proven experience in using wide range of software such as Microsoft Office, dbase and SPSS for various statistical analysis and data manipulations.
- Use of DOS, MS Windows.

Career summary

- June 2019 to now Associate Professor in mechanical engineering department Benha University.
- October 2009 up to June 2019 Assistant professor in mechanical engineering department King Khalid University.
- October 2007 up to 2009 Assistant professor in mechatronics department in science & Culture city 6th of October
 - Running Machine Design course (Benha & 6th of October University)
 - Running an AutoCAD 2D & 3D Course
 - Running Solidworks Course.

- Teaching MATLAB Course
- Running programming with basic language course
- March 2004 up to September 2007: Assistant professor in mechanical engineering department, Shoubra faculty of engineering, Benha University.
 - Teaching engineering drawing course (*Benha & 6th of October University*)
 - Running an AutoCAD course (*Benha & 6th of October University*)
 - Running Machine Design course (*Benha & 6th of October University*)
 - Teaching an Operation Research course (*Benha & 6th of October University*)
 - Running programming with basic language course
 - Teaching manufacturing systems course (*6th of October University*)
 - Supervising and examining a students' final projects (*Benha & 6th of October University*)
- March 1999 - February 2004: PhD Research, Brunel University, England
 - Research on modeling, simulation and implementation of robotic assembly cell for producing a large composite perform components for aerospace applications
 - Publications of many journal and conference papers
 - Writing a software for the automated assembly cell used for producing a composite component for aerospace applications
 - Running an AutoCAD course for undergraduate students
 - Running a robotics and automated assembly course for postgraduate students
 - Member of the organizing committee and webmaster of the 2nd DRC2000 Conference
- October 1991 - February 1999: Assistant lecturer, institute of productivity, Benha university, Egypt
 - Conducted with a research in non-conventional machining to design and implementation of an electro-chemical grinding machine.
 - Different administrative and teaching activities
 - Responsible for maintaining industrial equipment
 - Supervising and examining undergraduate students' final projects

Education and training

2004: **PhD** at Brunel University, England: ***Automated Assembly of Large Composite Preforms For Reinforcement Applications in Aerostructures***

February 2000: Achieved a training course in ***3D robotic simulation*** in Birmingham University

May 1999: attended a general training program for research students in engineering, **science and technology** at **Brunel University, England.**

1994: **MSc** at Benha university, Egypt: ***Creating an Electro-Chemical Grinding machine (ECG) for hard surfaces machining***

1989: **BSc** at Benha University, Egypt with grade 'A' in mechanical engineering

1985 -1989: University studies at Benha University, Egypt,

Publications

1. Identifying and prioritising future robot control research with multi-criteria decision-making.
Rahmath Ulla Baig, Shaik Dawood, Mohamed Mansour, Tarik Tawfeek
TRANSACTIONS OF FAMENA, UNIV ZAGRAB FAC MECHANICAL ENGINEERING & NAVAL ARCHITECTURE, XLIV-3 (2020), ISSN (Print) (1333-1124) ,ISSN (Online) (1849-1391).
2. Study the Influence of Gas Metal Arc Welding Parameters on the Weld Meta and Heat Affected Zone Microstructures of Low Carbon Steel.
Tarik Tawfeek
<http://www.enggjournals.com/ijet> , International Journal of Engineering and Technology (IJET), Jun-Jul 2017, Vol 9 No 3.
DOI: 10.21817/ijet/2017/v9i3/170903272, ISSN (Print) : 2319-8613, ISSN (Online) : 0975-4024.
3. An Investigation into Effect of Butt Welding Parameters on Weldment Mechanical Properties
A. Hemaïd, Tarik Tawfeek*, and O. A. Gaheen
American Journal of Mechanical Engineering, 2016, 4 (3), 92-98
<http://pubs.sciepub.com/ajme/4/3/2>, DOI: 10.12691/ajme-4-3-2, ISSN (Print): 2328-4102, ISSN (Online): 2328-4110
4. Experimental Investigation on Surface Finish during Turning of Aluminum under Dry and Minimum Quantity Lubrication Machining Conditions
A Hemaïd, Tarik Tawfeek, A. A. Ibrahim
American Journal of Materials Engineering and Technology. 2016, 4(1), 1-5
<http://pubs.sciepub.com/materials/4/1/1>, DOI: 10.12691/materials-4-1-1, ISSN (Print): 2333-8903,ISSN (Online): 2333-8911.
5. Study the Influence of A New Ball Burnishing Technique On the Surface Roughness of AISI 1018 low carbon steel
AA Ibrahim, T Khalil, T Tawfeek
International Journal of Engineering & Technology 2015, 4 (1), 227-232
<http://www.sciencepubco.com/index.php/IJET> , ISSN: 2227-524X
6. Experimental Investigations towards Optimization of the Parameters for Wear Loss Quantities in A356/Al 2 O 3 Nanocomposites
EI-Sayed EI-Kady, Tamer Khalil, Tarik Tawfeek
American Journal of Materials Engineering and Technology, 2015, 3 (1), 1-6
<http://pubs.sciepub.com/materials/3/1/1/> , DOI: 10.12691/materials-3-1-1, ISSN (Print): 2333-8903,ISSN (Online): 2333-8911.
7. Modeling and experimental analysis of wheel-work interface in the cylindrical plunge grinding process
Tarik Tawfeek
International Journal of Engineering & Technology, 2014,3 (4), 484-491,

8. Design and Delivery of a Fully Online CAD-CAM Course For Engineering Students
Tamer Khalil, Tarik Tawfeek
International Journal Of Mechanical Engineering And Technology (IJMET),2014, 5 (9), 400-416
<http://www.iaeme.com/IJMET.asp> , ISSN 0976 – 6340(Print), ISSN 0976 – 6359(Online)
9. An Investigation of the Insertion Mechanism Influence on the Overall Behavior of the Three-Dimensional Aerospace Components
Tawfeek T.M.
3rd International Scientific Conference of The Military Technical College, 16-18 May, 2006.
10. **Tewfic T**, Sarhadi M and Bahai H, (2002) Modeling and simulation of a flexible manufacturing cell for aerospace composite structures, *COMADEM International*, Birmingham, 2-4 September, pp419-428.
11. **Tewfic T** and Sarhadi M. (2001) Integration of a robotic cell for the lay-up of large composite preforms, *Proceeding of MCPL*, Vol. 2, pp 579-584.
12. **Tewfic T** and Sarhadi M, (2000): Novel folding device for manufacturing aerospace composite structures, *Proceeding of SPIE* Vol. 4192,pp 212-221.
13. **Tewfic T** Sarhadi M, and Bahai H, (2002) Investigations of an Automated Cell for Manufacturing Aerospace Composite Structures, *Proceeding of Sampe*,pp140-150.
14. **Tewfic T** and Sarhadi M, (2000) A fully automated manufacturing cell for laying up carbon composite preforms *Systems Engineering Conference*, Brunel University 16-17 September.
15. **AA Ibrahim and T Tawfeek**“Theory of Surface Production in Electrochemical Grinding”, Eng. Res. Journal of EL-Mataria faculty of Eng., Helwan university, vol.3, PP (78-85), Mar 1995., Cairo, Egypt

Personal Details

Skills

- Able to work on my own initiative and demonstrate a high level of team contribution.
- Ability to work under pressure and a determination to succeed.
- Excellent communication skills.

Interests:

- Walking and playing football
- Reading

Health: Very good, Non-smoker

References: Available on request