

## **Dr. Tamer Abdel-Fattah Khalil**

Benha University, Egypt

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### **Education**

- Bachelor of Science, grade excellent, Mechanical Engineering Dep. (Production), Zagazig University, Egypt, May 1989.
- MSc., Mechanical Engineering Dep., Zagazig University, Egypt, July 1994.
- PhD., Department of Design, Manufacture and Engineering Management, University of Strathclyde, UK, Nov 2000.

### **Professional Experience:**

- 1990-1994: Demonstrator, Shoubra Faculty of Engineering, Zagazig University, Egypt.
- 1994-2001: Teaching Assistant, Shoubra Faculty of Engineering, Zagazig University, Egypt.
- 2001-2004: Lecturer, Shoubra Faculty of Engineering, Zagazig University, Egypt.
- 2004 -2008: Lecturer, Department of Mechatronics, October 6 University, Egypt.
- 2008 -2014: Lecturer, Department of Mechanical Engineering, King Khalid University, Saudi Arabia.
- 2014-: Lecturer, Shoubra Faculty of Engineering, Benha University, Egypt

### **Research Interests**

- Industrial Robot design and control.
- Transparent Telepresence applications
- Computer Aided Design
- Solid Modelling and 3D-Graphics on PC's
- Nano technology

### **Teaching Areas**

- Industrial Robot arms design.
- Robot arm dynamics.
- Robot arm control.
- Machine elements design.
- Mechanical drawing.
- Computer Aided Design.
- Microcontroller for real time process control.
- System analysis and software engineering.

### **List of publications**

- "On the fabrication of A356/Al<sub>2</sub>O<sub>3</sub> metal matrix composites using rheocasting and squeeze casting techniques", E.Y. El-Kady, T.S. Mahmoud, M. Abdel-Aziz, T. A. Khalil, Journal of Materials Science and Engineering, Open Access, October 2014, vol. 3, Issue 3
- "An Investigation Of New Trends In Sensing For Controlling A Landmine Detection ROV", A.M. S. Abbas, T. A. Khalil, ERJ SHOUBRA FACULTY OF ENG. Number 5 October 2005
- "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) 5 (9), 400-416
- "Experimental Investigations towards Optimization of the Parameters for Wear Loss Quantities in A356/Al<sub>2</sub>O<sub>3</sub> Nanocomposites", ES El-Kady, T Khalil, T Tawfeek, American Journal of Materials Engineering and Technology 3 (1), 1-6

- “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 4 (1), 227-232
- “Influence of nano dispersions on corrosion behavior of aluminum metal matrix nano-composites fabricated using powder metallurgy route”, E. Y. El-Kady, T.S. Mahmoud, M. Abdel-Aziz, T. A. Khalil, Journal of Materials Science and Engineering, 2014, 3 (3)
- “The Effect of Machining Parameters on the Cutting Forces, Tool Wear, and Machined Surface Roughness of Metal Matrix Nano Composite Material”, E. Y. El-Kady, A. M. Gaafer, M. H. G. Ghaith, T. Khalil, A. A. Mostafa, Advances in Materials, 2015; 4(3): 43-50, Published online April 21, 2015, (<http://www.sciencepublishinggroup.com/j/am>), doi: 10.11648/j.am.20150403.11, ISSN: 2327-2503 (Print); ISSN: 2327-252X (Online)
- “MECHANICAL CHARACTERISTICS OF EPOXY/MWCNTs AND EPOXY/Al2O3 POLYMERIC MATRIX NANOCOMPOSITES”, S. M. Mohammed, T. A. Khalil, T.S. Mahmoud, E.Y. El-Kady, 1st international conference on material science and engineering, Feb 22-23 2016, Faculty of engineering, Shoubra, Benha university, (paper accepted).

### **Achievements**

Tamer is the developer of a Student Information System (SIS) used to manage students on the credit hour programs in Shoubra facility of engineering. The system is based on Microsoft Access database and programed with Visual Basic. The system is capable for registering students on courses, documenting grading transcripts and results of student test and other assessment scores, build student schedules, and many other student related data needs. The system also handles semester timetables scheduling, staff member’s data and scheduling, and supply data for financial department.

### **Biography**

- Born: November 22, 1966 Cairo, Egypt.
- National service: 1990-1991, Egyptian army
- Married in 2004
- Hobbies: Aviation, Remotely operated vehicles (ROV), Computer simulators.
- Languages: Arabic, English.

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