

DR. AHMED A. ELKERAN

Assoc. Professor, Department of Mechanical Engineering, King Abdulaziz University

Education

<i>Degree</i>	<i>Field</i>	<i>Institution</i>	<i>Year</i>
PhD	Production Engineering	Technical University, Hungary	1994
MS	Production Engineering	Mansoura University, Egypt	1987
BS	Production Engineering	Mansoura University, Egypt	1982

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Full or Part Coordinator, etc.)</i>	<i>Time</i>
1982	1987	Mansoura Univ.	Demonstrator		Full Time
1987	1989	Mansoura Univ.	Assist Lect.		Full Time
1994	2004	Mansoura Univ.	Assist. Prof.		Full Time
2004	2008	Mansoura Univ.	Assoc. Prof.		Full Time
2008	Date	King Abdulaziz Univ.	Assoc. Prof.		Full Time

Non Academic Industrial Experience (including Consultations)

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position Description (Brief)</i>	<i>Full or Part Time</i>
Oct. 2-6, 2012		BiMU Fair, Milanom, Italy	CNC Machining centres,	Visitor	
			...		
Nov. 17-20, 2008		Saint Gobain Arasives Co. Italy	Roll Grinding	Trainee	Full Time
2001	2009	Shouman Co. Damietta Egypt	CNC and R&D	Consultant	Part Time
Sep. 14-21, 2005		EMO Fair, Hannover, Germany	CNC Machining centres,	Visitor	
			...		
July 18-22, 2005		DEA Hexagon Metrology Co. Torino-Italy	CMM	Trainee	
Oct. 20-27, 2004		K 2004 Fair, Düsseldorf, Germany	Plastic Machinery	Visitor	
Mar. 6-8, 2004		National Institute for Measurement and Calibration, Cairo, Egypt	Egyptian-German CMM	Trainee	
Sep. 19-21, 2003		MTA International Exhibition, Singapore	Precision Engineering and Metalworking	Visitor	
Sep. 23-26, 2002		CIMES&CMTF Exhibition, Beijing, China	CNC Machine tools & Plastic machinery	Visitor	
Sep.12-19, 2001		EMO Fair, Hannover, Germany	CNC Machining centres, ...	Visitor	
2003	2004	Industry Modernization Unit, Faculty of Eng., Mansoura Univ., Egypt		Vice Chairman	Part Time

Certifications and Professional Registrations

Registered Professional Engineer in Egypt

Current Membership in Professional Societies and Organizations

<i>Society/organization</i>	<i>Rank</i>	<i>Member Since</i>
1. Egyptian Syndicate of Professional Engineers	Member	Since 1982

Honors and Awards

1. Ranked first with honor degree among 60 BS graduates from the Production Engineering Department, Mansoura University, Egypt, 1982

Institutional and Professional Services *(administration, committees, units, etc.)*

1. Member of Mansoura Univ. Library Committee 1995-2008
2. Academic students advisor, Production Eng. Dept., KAU, 2010-present.
3. Member of King Abdulaziz Univ. Laboratory & Workshop Committee, 2010-present
4. Member of King Abdulaziz Univ. Transfer Committee, 2013 - present

Principal Publications/Presentations from the Past Five Years

1. **A. Elkeran**, "A new approach for sheet nesting problem using guided cuckoo search and pairwise clustering", European Journal of Operational Research, Vol. 231, Issue 3, pp. 757–769, 16 December 2013
2. T. T. El-Midany, **A. Elkeran**, A. Galal, and M. Elkhateeb "NURBS Surface Reconstruction Using Rational. B-spline Neural Networks" JCET Journal of CONTROL Engineering and Technology, Vol. 1 No. 1 July 2011.
3. T. T. El-Midany, **A. Elkeran** and G. A. Elhendawy "A Vision System for Robot Bin Picking of Partial Occluded Shapes" 6th International Engineering Conference, Mansoura/Sharm El-Sheikh, Egypt, March 18-22, 2008.
4. T. T. El-Midany, **A. Elkeran** and M. M. Mahfouz "Images Processing and Analysis for Mechanical Parts" 6th International Engineering Conference, Mansoura/Sharm El-Sheikh, Egypt, March 18-22, 2008.
5. T. T. El-Midany, **A. Elkeran**, and H. T. Radwan "Optimal CNC Plunger Selection and Toolpoint Generation for Roughing Sculptured Surfaces Cavity". ASME Journal of Manufacturing Science and Engineering, Nov. 2006, Vol. 128, Issue 4, pp. 1025-1029. (USA)
6. T. T. El-Midany, **A. Elkeran** and G. A. Elhendawy "A Vision System for Mechanical Parts Recognition Using Neural Networks" 7th International Conference on Production Engineering and Design for development, Cairo, Egypt, Feb. 2006. pp. 102-112
7. El-Midany T.T, **A. Elkeran**, and Tawfik H., "Toolpath Pattern Comparison Contour Parallel With Direction Parallel", Geometric Modeling and Imaging-New Trends (GMAI'06), July 2006. pp. 77-82