# Abdelhay Mohamed Abdelhay (20 Years of experience)

Prof. Dr. Eng. Abdelhay Mohammed Abdelhay

Professor, Mechanical Engineering Dept., Faculty of Engineering Helwan University.

Prof. Abdelhay has thirty years of experience in teaching, research, consulting and training at the Helwan University, the Alabama University (USA), Yanbu Industrial College (Saudi Arabia) and several public and private companies in Egypt. He has got "The Most Outstanding Dissertation Award"; (USA - 1991), The Best Mechanical Invention Award - 3<sup>rd</sup> Position (Saudi Arabia - 1994) and the "Prize of State for Engineering Sciences (Egypt 2004-05).

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Curriculum Vita	e Abdelhay m. Abdelhay
Objective	Capable of delivering and carrying out special courses or traininga programs private sectors and companies inside and outside Egypt for self - interest courses in Mechanical Manufacturing / Production, Mechaics or Industrengineering fields.
Education	<b>Doctorate of Philosophy (Ph.D.)</b> University of Alabama Tuscaloosa, Alabama, USA 1982 - 1988
	Master of Engineering ( M Sc ) Helwan University
	Cairo, Egypt 1979 - 1982
	Bachelor of Science (B Sc) Assuit university
	Minia, Egypt 1971 - 1976
	Thanaweya Amma, Science Major Imbaba Secondary school
	Giza, Egypt 1968 - 1971
Experience	A total of 20 Years of National and International Experience in USA, KSA and Egypt
Professional Career Experience	Sept. 2007-Present Canadian International College ( CIC ) Engineering Department Job Title : Head of Engineering Department
	<ul> <li>Teaching and assisting in the delivery of academic education courses undergraduates, the courses include:</li> <li>Machine Design, Machine Tool Design, Strength of Materials, Metallurg Manufacturing Technology, Engineering Drawing, AutoCad, Measuremen Metal Cutting, Manufacturing Processes, and more.</li> </ul>
	<ul> <li>In addition, I'm involved in several administrative, academic, and cultu activities in the University, include:</li> <li>Duties: Managing all Acadmic and Adminstrative aspects of the engineerid Department (Manufacturing, Communications, and Computer Programs)</li> </ul>
	Sept. 2006 – Sept 2007 Industrial education College, Helwan university
	<ul> <li>Job Title : Vice Dean for Eduction and Students affairs</li> <li>Main Responsibilities include:</li> <li>All aspects and duties related to the Education process and Students affair academic, and cultural activities )</li> </ul>
	Aug 1991 – Aug 1997 Yanbu Industrial College, Royal Commission for Yanbu and jaubil projects, KSA Lecturer
	<ul> <li>Sept. 2006 – Sept 2007</li> <li>Industrial education College,</li> <li>Helwan university</li> <li>Job Title : Vice Dean for Eduction and Students affairs</li> <li>Main Responsibilities include:</li> <li>All aspects and duties related to the Education process and academic, and cultural activities )</li> <li>Aug 1991 – Aug 1997</li> <li>Yanbu Industrial College,</li> </ul>

Curriculum Vita	iculum Vitae Abdelhay m. Abdelhay			
Professional Career Experience (Cont.)	<ul> <li>Delivering many courses in Manufacturing Engineering Technology</li> <li>Course Developments for the New opened MET department</li> <li>Establishing 4 Different Labs for the MET department (Metallugraphics Lab Material Testing Lab, Inspection and Measurements Lab and Mechaical driv Lab)</li> </ul>			
(,	Aug 1988 -Sept. 2007 Faculty of engineering, Helwan University ( Ass Prof, Assoc Prof and full professor ) Assistant for the Department Head for the Division of Machinin Speciality.			
	Main Responsibilities include: <ul> <li>Teaching many Courses for undergraduate and graduate students</li> </ul>			
	<ul> <li>Acadimic Advisor for Graduate Students</li> <li>Members in different Faculty committees (Student Affairs, Purchasing, Students acitvities, etc)</li> </ul>			
	<ul> <li>Responsible for the Mechanical engineering</li> </ul>	Workshops and Labs.		
Ph.D. Study	Some of the PH D studied course (Majo Mechanics + Minor 2 : Mathematics ) are as	or: Solid Mechanics + Minor 1 : Fl shown in Table Below.		
		ring Theory		
		te-Element Method in Engineering chanics		
	Continuum Mechanics     Fini	te Difference Methods in Fluid		
		namics Indary Layer Theory		
		ory of Elasticity		
	Ph D dissertation: " A study of High Strain Rate Generation			
	in Ti6Al4V - <b>Titaniu</b>	m Alloy"		
Published Papers	1 A. M. Mousse and A. M. Abdalh	w "Eastors Affasting Desidu		
rapers	1- A. M. Moussa and A. M. Abdelh			
	Machining Stresses", 2nd PEDAC Inter. Conf., Dec. 22-27 1983,			
	University of Alexandria (Egypt ).			
		<b>delhay</b> , " Residual Machinin		
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	2- A. M. Moussa and A. M. Ab Stresses In Turning Operations", 2	nd PEDAC Inter. Conf., Dec		
	<ul> <li>2- A. M. Moussa and A. M. Ab Stresses In Turning Operations", 2 22-27 1983, University of Alexand</li> </ul>	nd PEDAC Inter. Conf., Dec		
	<ul> <li>2- A. M. Moussa and A. M. Ab Stresses In Turning Operations", 2 22-27 1983, University of Alexand</li> <li>3- A. M. Abdelhay, A. M. Moussa</li> </ul>	nd PEDAC Inter. Conf., Dec ria (Egypt) and A. E. Carden, " Dynami		
	<ul> <li>2- A. M. Moussa and A. M. Ab Stresses In Turning Operations", 2 22-27 1983, University of Alexand</li> <li>3- A. M. Abdelhay, A. M. Moussa Deformation Of Ti 6A1 4V-Alloy</li> </ul>	nd PEDAC Inter. Conf., Dec ria (Egypt) and A. E. Carden, " Dynami Under Direct Shear Mode C		
	<ul> <li>2- A. M. Moussa and A. M. Ab Stresses In Turning Operations", 2 22-27 1983, University of Alexand</li> <li>3- A. M. Abdelhay, A. M. Moussa Deformation Of Ti 6A1 4V-Alloy Testing Up To 10 E05 /Sec", ME</li> </ul>	nd PEDAC Inter. Conf., Dec ria (Egypt) and A. E. Carden, " Dynami Under Direct Shear Mode C Γ-4 Conf., Zagazig University		
	<ul> <li>2- A. M. Moussa and A. M. Ab Stresses In Turning Operations", 2 22-27 1983, University of Alexand</li> <li>3- A. M. Abdelhay, A. M. Moussa Deformation Of Ti 6A1 4V-Alloy Testing Up To 10 E05 /Sec", MET Egypt) and Leicester Polytechnic (1)</li> </ul>	nd PEDAC Inter. Conf., Dec ria (Egypt) and A. E. Carden, " Dynami Under Direct Shear Mode C Γ-4 Conf., Zagazig University J K ) held in Cairo, March 1988		
	<ul> <li>2- A. M. Moussa and A. M. Ab Stresses In Turning Operations", 2 22-27 1983, University of Alexand</li> <li>3- A. M. Abdelhay, A. M. Moussa Deformation Of Ti 6Al 4V-Alloy Testing Up To 10 E05 /Sec", ME Egypt) and Leicester Polytechnic (1)</li> <li>4- A. M. Abdelhay, A. M. Moussa and</li> </ul>	nd PEDAC Inter. Conf., Dec ria (Egypt) and A. E. Carden, " Dynami Under Direct Shear Mode C Γ-4 Conf., Zagazig University J K ) held in Cairo, March 1988 and A. E. Carden, " Observatio		
	<ul> <li>2- A. M. Moussa and A. M. Ab Stresses In Turning Operations", 2 22-27 1983, University of Alexand</li> <li>3- A. M. Abdelhay, A. M. Moussa Deformation Of Ti 6A1 4V-Alloy Testing Up To 10 E05 /Sec", MET Egypt) and Leicester Polytechnic (1)</li> </ul>	ria (Egypt) and A. E. Carden, " Dynami Under Direct Shear Mode O Γ-4 Conf., Zagazig University J K ) held in Cairo, March 1988 and A. E. Carden, " Observatio er Direct Shear Mode O		

Up To 10 E05 /Sec", MET-4 Conf., Zagazig University (Egypt) and Leicester Polytechnic (UK) held in Cairo, March 1988.

- A. M. Abdelhay," Study Of The Loading Pulse Geometry Due To Collinear Impact Of TWO Elastic Rods", Proc. of the Inter. AMSE Conf. onSystems Methodologies to ,Data ,Applications of Signals " 199 ,30-28 .Dec ,(Egypt )Alexandria ,"Engineering Problems ,1 .Vol ,press pp. 73-82.2AMSE
- 6- A. M. Abdelhay, "Determination Of The Sliding Coefficient Of Friction Under Condition Of Plastic Deformation", Proc. of the Inter. AMSE Conf. on" Applications of Signals, Data, Systems Methodologies to Engineering Problems", Alexand ,(Egypt )ria ..95-83 .pp ,1 .Vol ,AMSE press 1992 ,30-28Dec
- A. M. Abdelhay," Study Of The Loading Pulse Geometry Due To Collinear Impact Of TWO Elastic Rods", Proc. of the Inter. AMSE Conf. on Applications of Signals, Data, Systems Methodologyies to 1992, 30-28. Dec, (Egypt) Alexandria, "Engineering Problems A.82-73.pp, 1. Vol, MSE press
- 8- Mobarek and .I.M.IA. M. Abdelhay, " An Experimental Investigation Into The Effect Of Machining Variables Of The ECM Drilling " Engineering Resea ,Helwan University ,rch Bulletin .70-51 .pp ,1991January ,1 .Vol,(Egypt)Helwan
- 9- A. M. AbdelhayThe Influence Of Plastic Deformation Upon ", ,"Surface Roughness And Specific Power In Metal Cutting .Vol ,"B"s AMSE Periodical ,Measurement and Control ,Modeling .54-49 .pp ,1994 ,4 .No ,53
- 10- A. M. Abdelhay Effect Of Sequence Of Operations ",On CylindricalThe Fourth ,"Errors When Machining Sleeve Bearings 75 .pp ,4 .Vol ,1995 .Nov ,(K S A )Jeddah ,Conference .Saudi Eng .81-
- 11- A. M. Abdelhay Statistical Analysis Of ",Wahab-El .I.and A The ,"Roundness Errors Arise From Three Machining Methods .74 69 .pp ,4 .Vol ,1995 .Nov ,Conference .Fourth Saudi Eng
- 12- A.I. El-Wahab and A. M. AbdelhayInvestigation Studies On ", rpolation Algorithms Adopted For CNCThree Circular Inte

,Helwan University ,Engineering Research Journal ,"Machines .8 -1 .pp ,1995April ,4 .Vol,(Egypt)Helwan

- 13- A. M. Abdelhay and A.I. El-Wahab "Optimizing Burnishing Process Parameters For Geometrical Shape And Surface Finish " PEDAC' 97, 6th Inter. Conf.,., 15 - 17 Feb., 1997, Alexandria ( Egypt), pp. 395 - 404.
- 14- A.I. El-Wahab and A. M. AbdelhayA New Algorithm And Tool ", .th Inter6 ,97PEDAC', "Design For CNC Profile Burnishing Alexandria, ...,Conf, Egypt, pp. 385 - 393, 15 - 17 Feb., 1997.
- M.I. Etman, O. .M. .Dawood and A. .M. Abdelhay, "Artificial Neural Networks As An Alternative For Evaluating Parameters Of Ultrasonic Response To Metal Permanent Deformation", PEDD 6, Ain Shams University, Cairo, Egypt, pp. 182-193, 12-14 Feb., 2002.
- 15- A. .M. Abdelhay and O. M. Dawood," Characterization Of Material's Permanent Deformation By Ultrasonic Technique." 7<sup>th</sup> Inter. Conf. On PEDAC, Alex, Egypt Vol.III, pp.1431-1441, Feb., 2001.
- 16- O. M. Dawood, A. M. Abdelhay, A. El-Zomor, and A. D. El-Lethy," Evaluation Of Microstructure Characteristics Of Plain Carbon Steel Using Ultrasonic Wave Parameters". 1<sup>st</sup> Symposium on Heat Treatment of Metals and Alloys, TIMS Cairo, Egypt, pp. 123-134, 3-5 Nov., 2001.
- 17- S. F. Moustafa, Z. Abdel-Hamid, and A. .M. Abdelhay, "Copper Matrix Sic And Al2O3 Particulates Composites By Powder Metallurgy Technique", Materials Letters, Vol 53, pp. 244-249, 2001.
- 18- A. M. Abdelhay, and I. M. I. Mobark, "Ultrasonic Evaluation Of Surface Roughness Using Normal Incidence Pulse - Echo Technique ", PEDD6, Ain Shams University, Cairo, Egypt, pp. 607-617, 12-14 Feb., 2002.
- 19- M. I. Etman, A. M. Abdelhay, and O. M. Dawood, "Evaluating Ultrasonic Response To Surface Finish Parameters Using Back Propagation Neural Networks", 3<sup>rd</sup> Assuit Univ. Int. Conf., MEATIP 3, pp. 485-492, 24-26 Dec., 2002.

20-	AM. Abdelhay, " Application Of Artificial Neural Networks To
	Predict The Carbon Content And The Grain Size For Carbon
	Steels", Egyptian J. Solids, Vol. 25, No. 2, pp.229 -243, 2002.

- 21- A. .M. Abdelhay, "Biaxial Stress State Evaluation Using Nondestructive Ultrasonic Technique", Sci. Bull. Fac. Eng. Ain Shams Univ., Vol. 38, No. 1, pp. 291-300, March 31, 2003.
- 22- A. .M. Abdelhay, " Prediction On Pressure Vessel Working Stresses With Artificial Neural Network Approach Using Ultrasonic NDT", Bulletin – TIMS, Vol. 81, pp. 39-49, Jan 2003
- 23- A. .M. Abdelhay , and M. T. El-Wakad, " Stresses Induced In Abutment Teeth Due To Long Span Bridge ( A Case Study)", 4th Int. Implantology Conf., Egyptian Scientific Soc. For Dental Implantologist, Cairo 3-5, April 2001.
- 24- Ahmed H. Youssef, and A. .M. Abdelhay, "Strain Gauge Analysis of Class III Removable Partial Denture With and Without Rest", El-Azhar J. of Dental Science, Vol. 4, No. 2, pp. 257-262, April, 2001.
- 25 A. .M. Abdelhay, S. F. Moustafa, and M. W. Abdelhalim, " Evaluation of a New Copper Matrix Composites with Coated Reinforcement Alumina Particulates", Proceedings of the 8<sup>th</sup> Inter. Cairo Uni. MPD conference, Cairo, Egypt, Vol. 1, pp. 659-665, Jan 4-6, 2004.
- A. M. Abdelhay, A. Hegazy, and E. E. Elgharieb, "
   COMPARATIVE EXPERIMENTAL STUDY FOR ADHESIVE
   BONDING JOINTS", Presented in the the PEDD7, Ain Shams
   University, Cairo, Egypt, 7–10 Feb., 2006.

*Attended Training Courses* 

- Technical Report Writing for ASEC Top Manger Engineers" at HIS consulting office. (Egypt, 2006 -2007)
  - "Mechanical Measurement" at at HIS consulting office. (Egypt, 2001-2005)
  - "Materials Heat Treatment" at Arab organization for Industrialization Consulting Center (AOI). (Egypt, 1998 -2007)
  - "Design for Manufacturing" at Arab organization for Industrialization Consulting Center (AOI). (Egypt, 1998 -

**Curriculum Vitae** 

## Abdelhay m. Abdelhay

# 2007)

- Awards International and NationI awarded certificates.
  - i: Encouragement National Award
    - In Engineering Field (2004) Egypt
  - ii- The Most **Outstanding** Dissertation Award

(USA - 1991)

iii: Best Mechanical Invention Award - 3<sup>rd</sup> Position

(Saudi Arabia - 1994)

Iv: Prof.\ Hassan Hosni Award for the **Best M Sc** thesis

(under my supervision)(2006)

## Special Skills

## Managerial Skills

- Five years of Managerial activities as Engineering head Department (CIC), Vice Dean (Ind Edu college, Helwan university) and Divistion chairman in Mechanical engineering Department (Helwan University).
- Having good Presentation skills and get along Communication with other
- Hard worker, Creative, Dynamic, self confident and can work as a team with leadership skills

## **Marketing Skills**

NA

#### **Computer Skills**

- Efficiency in using Windows 2007.
- Efficiency in using Auto Cad 2005.
- Efficiency in using Fortran Programming Language.
- Efficiency in using Internet.

#### Languages

- Native speaker of Arabic
- Fluent in English

Personal	Date of Birth	May 11 <sup>th</sup> , 1953
Data	Place of Birth	Cairo, Egypt
	Nationality	Egyptian

References Prof. Dr. Abdelhai Ebied Ex Helwan University President Chairman of Universities Athletic Union, Cairo-Egypt

Prof. Kaddah Shaker Kaddah
 CIC Dean
 Faculty of engineering, Ain shams University, Cairo-Egypt

*Documented* Furnished upon request *References*