Faculty Name:	Prof. Abdelhamid. K. Mazher
Education:	Ph.D. Aerospace Engineering, Georgia Institute of Technology, 1987.
	MS Aeronautical Engineering, Cairo Univ.
	BS Aeronautical Engineering, Cairo Univ., June 1973
Academic	> Professor, Nuclear Engineering Department, College of Engineering, King
experience:	Abdul-Aziz University, Jeddah, KSA. 2013 - Present
	Adjunct Professor, WSU Tri-Cities, WA.
	Clinical Professor, WSU Tri-Cities, Richland WA, Jan. 2010 – May 2013.
	➢ Consultant associate with Farawila et al., Inc. Richland Washington 2007-
	2013.
	Professor, Aerospace Science Engineering Department, Tuskegee
	University, Alabama, 2000-2007.
	Visiting Professor, Computational Physics and Engineering Division, Oak
	Ridge National Lab, Oak Ridge, Tennessee, 37831, 2001.
	Aeroscience Specialist, KBZ Air College, UAE , 1991-2000.
	 Engineering Consultant, Atlanta, GA, 1992-1998. Descent Scientist, School of Assessment Machanizat Engineering, Counting
	Research Scientist, School of Aerospace/Mechanical Engineering, Georgia Institute of Technology, Atlanta Coorgin, 1087, 1002
	 Institute of Technology, Atlanta, Georgia, 1987-1992. Research Assistant, School of Aerospace Engineering, Georgia Institute of
	Technology, Atlanta, Georgia, 30332, 1980-1987
	 Arabic language teacher, North Atlanta High School, Atlanta GA, 1986.
	 Instructor, Aeronautical and Mechanical engineering, Cairo University,
	1973-1980.
Non-academic	 A broad range of working experience in mechanical, civil and aerospace
experience	engineering to model, and solve engineering problems using analytical,
	computer, and theoretical skills.
	> Wrote and submitted many research proposals to DOE, NASA, USAD, and
	NSF
	Training of UAE Air Force officers to use 6DOF code to simulate missile dynamics.
	 Application of Singular Value Decomposition (SVD) techniques to filter the
	noise.
	 Computational Fluid Dynamics (CFD) and grid generation techniques of
	internal flow through 3D branching geometry applied to biological fluid
	flow of blood in arteries.
	> Effects of sand on the engine's lifetime of Jet Ranger Helicopter in desert
	environment.
	> Computation of 3D helicopter plume characteristics in forward flight and
	hover. (GTRI)
	Calculations of non-Newtonian flow fields in a 2D cavity.
Current	➢ Sigma Xi, the Scientific Research Society of North America, ASEE, AIAA,
membership in	ASME.
professional	
organizations	
Honors and awards	> Award for 10 years of dedicated work, Georgia Institute of Technology,

		Atlanta, GA, USA, 1990.
	\triangleright	Graduate Student Senator, Georgia Institute of Technology, 1985 -1986.
		Cairo University Award (Academic honor) in Aeronautical Engineering.
		"Computational Modeling of Circulating Fluidized Bed Reactors,"
		Department of Energy, three years (2006-2009), \$442,206.
		"Computational Simulation of a Novel Circulating Fluidized Bed
		Reformer," USAD, two years (2006-2008) \$58,726. This is a joint research
		grant with the chemical engineering department, Cairo University, Egypt.
	\triangleright	"Modeling Turbulence using Variational Techniques," NASA FAR, three
		years (2003-2006), \$300,000.
	\triangleright	Fulbright Scholar: Engineering education research award for the summer of
		2006. The aim of the Fulbright research award is to investigate the
		suitability of ABET 2000 EC to developing countries.
Service Activities	\triangleright	Graduate Committee, WSUTC, Washington, Multidisciplinary Committee,
		Tuskegee University,
	\triangleright	Evaluation, Tests & Examinations Committee, Air College, UAE Air Force.
		& Curriculum development committee for UAE Air Force
Publications &	1.	Mo, C., Mazher, A. k., and Clark, W. W., "Energy Harvesting with
presentations from		Piezoelectric Circular Membranes under Pressure Loading," To be
the past five years		submitted to the Journal of Smart Materials and Structures.
	2.	Olaniyi Balogun, Changki Mo, A. K. Mazher, "Exergy Analysis Of Gas
		Turbine-Burner Engine", INTERNATIONAL JOURNAL OF SCIENTIFIC
		& TECHNOLOGY RESEARCH VOLUME 3, ISSUE 1, JANUARY 2014
	3.	A.K. Mazher and Changki Mo, "Dynamic Modeling of Turbulence", A
		refereed paper, proceedings of ASME 2013 International Mechanical
		Engineering Congress & Exposition, November 15-21, 2013, SD, USA.
	4.	Olaniyi A. Balogun, Changki Mo, A. K. Mazher, and John C. Brigham, "
		THREE-DIMENSIONAL NUMERICAL SIMULATION OF
		THERMOMECHANICAL CONSTITUTIVE MODEL FOR SHAPE
		MEMORY POLYMERS WITH APPLICATION TO MORPHING WING
		SKIN," Proceedings of the ASME 2013 Conference on Smart Materials,
		Adaptive Structures and Intelligent Systems. September 16-18, 2013,
		Snowbird, Utah, USA.
	5.	Mansour K. Mansour and A. K. Mazher, A Modified Algorithm for
		Computing the Eigenvalues and Eigenvectors Using the Bimodal Optical
		Computer, Higher Colleges of Technology, UAE, July 2011,
	6.	A. K. Mazher, A Review of Uranium Economics, International Journal of
		Nuclear Governance, Economy and Ecology (IJNGEE), Volume 2 - Issue 4,
		pp. 337-361, 2009.
	7.	A. K. Mazher, Education and Curriculum Development for the Next
		Generation of Entrepreneurs, Proceeding of Entrepreneurs in the Shade of
		Global Trade, the First Entrepreneurial Forum in the Gulf States, King
		AbdulAziz University, Jeddah, Saudi Arabia from 2-4 November, 2009.