

**DR. AL-BAHI, Ali M.***Professor, Aeronautical Engineering Dept., King Abdulaziz University***Education**

<i>Degree</i>	<i>Field</i>	<i>Institution</i>	<i>Year</i>
PhD	Aeronautical Engineering	ENSAE, Toulouse, France	1983
MS	Aeronautical Engineering	ENSAE, Toulouse, France	1980
BS	Aeronautical Engineering	Cairo University, Egypt	1975

**Academic Experience**

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Coordinator, etc.)</i>	<i>Full or Part Time</i>
1987	1993	King Abdulaziz Univ.	Assist Prof.		Full Time
1993	1999	King Abdulaziz Univ.	Assoc. Prof.		Full Time
1999	Date	King Abdulaziz Univ.	Professor		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>
1975	1977	Egyptian Air Force Training Center	Corporal	Instructor	Full Time
1977	1978	Aircraft Engines Factory, Helwan, Cairo, Egypt.	R&D Engineer	Redesign of Engine Control System ( <i>H-300</i> )	Full Time
1983	1987	Aircraft Engines Factory, Helwan, Cairo, Egypt.	R&D Senior Engineer	Performance of Gas Turbine Engines	Full Time

**Funded Research Projects and Patents from the Past Five Years**

- Grant No. 429/023, King AbdulAziz University, Research Project, *Development Of Introduction to Engineering Design II into a Project-Based Active/Cooperative Learning Course*, 2010.
- Strategic research project No. 10-MAT1267-03, King AbdulAziz City for Science and Technology KACST, *Aviation Security - Design of a Nuclear Instrument For Contraband Detection*, 2011, running.
- HiCi Research Initiative Funded Project, King Abdulaziz University, *Large Eddy Simulation of Flow past Tandem Cylinders in Passages with Heat Transfer*, 2012, Running
- Strategic research project No. 12-MAT2721-03, King AbdulAziz City for Science and Technology KACST, *Design of An Instrument for Measurement of Oil, Water, Vapour and Sand Layers in Oil Separators Using Neutron*, 2014, running.
- Strategic research project No. 12-ENE2236-03, King AbdulAziz City for Science and Technology KACST, *Improving the thermal Resistance of Building facades in Saudi Arabia*, 2014, running.

**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. American Inst. of Aeronautics & Astronautics, AIAA	Senior Member	1981
2. American Society of Engineering Education, ASEE	Member	2005
3. Institute of Electrical and Electronics Engineers, IEEE	Member	2011
4. Egyptian Syndicate of Professional Engineers	Member	1975
5. Society of Women Engineers	Member	2014
6. Saudi Society for Aerospace Sciences	Member	2003

7. Saudi Council of Engineers

Member

2005

### Honors and Awards

1. Ranked first among 120 BS graduates from the Aeronautical Engineering Department, Cairo University, Egypt, 1975
2. Vice President Elected, Egyptian Section of the International Solar Energy Society (1985-87).
3. "Senior Member" of the American Institute of Aeronautics and Astronautics (AIAA).
4. 1991, 1993, 2001, 2007 and 2008 Faculty of Engineering, King Abdulaziz Univ. Awards
5. 2003 King Abdulaziz Rector's Distinguished Faculty Award.
6. Member of the Editorial Board of the Civil Aviation Journal, Presidency of Civil Aviation, Kingdom of Saudi Arabia (2008-)

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

1. Academic advisor, more than 150 students, over 20 years, Aeronautical Eng. Dept., KAU, 1992-present
2. Aeronautical Eng. Program coordinator for ABET accreditation (2000-2011).
3. Director of the Faculty of Engineering Academic Accreditation Unit, KAU, 2006- present.
4. Member IEEE Gulf Region Accreditation Subcommittee, IEEE Committee on Global Accreditation Activities, 2010- present.
5. Member of King Abdulaziz Univ. Scientific Chairs Research Committee, 2010- present
6. Coordinator of several KAU and Faculty of Engineering Committees (Scientific Chairs, Curriculum, Postgraduate, Strategic Planning), KAU, - present.

### Principal Publications/Presentations from the Past Five Years

1. Zahed, A., Bafail, O., Abdel Aal, R., and Al-Bahi, A., "Preparing for ABET Accreditation in Non-Western, Non-English Speaking Environment," 2008 Annual Conference & Exhibition of the American Society of Engineering Education, June 2008.
2. Al-Bahi, A., "Designing Undergraduate Engineering Lab Experience to Satisfy ABET EC2000 Requirements," 2008 Annual Conference & Exhibition of the American Society of Engineering Education, June 2008.
3. Faisal I. Iskanderani and Ali M. Al-Bahi, "A Case Study in Preparing for ABET Accreditation at King Abdulaziz University," Global Higher Education Forum, FHEF 2009, Penang, Malaysia, Dec 2009.
4. Faisal I. Iskanderani, Abdelfattah A. Soliman, Reda A. Abdulaal, and Ali M. Al-Bahi, "A Project-Based Active/Cooperative Engineering Design Course for Freshman Level Students," 5<sup>th</sup> International Forum on Engineering Education (IFEE2010), Jointly with: European SDPROMO II Conf., Sharjah, UAE, Nov. 2010.
5. Ali M. Al-Bahi, Reda M.S. Abdul Aal, Abdelfattah Y. Soliman, and Faisal I. Iskanderani, "Introductory Project Based Design Course to Meet Socioeconomic Challenges," 2011 Annual Conference & Exhibition of the American Society of Engineering Education, June 2011
6. R. M. Abdulaal, A. M. Al-Bahi, A. Y. Soliman & F. I. Iskanderani, "Design and Implementation of a Project-Based Active/Cooperative Engineering Design Course for Freshmen, European Journal of Engineering Education, Vol. 36, No. 4, August 2011, 391-402.
7. Ali M. Al-Bahi, Mahmoud A. Taha, and Nedim Turkmen, "Teaching and Assessing Engineering Professional Skills," Int. J. of Engineering Pedagogy, Volume 3, Issue 3, June 2013.
8. Ali M. Al-Bahi, Abdelfattah Y. A. Soliman, Mohamed H. M. Hassan & Nader M. A. Mohamed, "Concept design of an illicit material detection system," J. Radioanalytical and Nuclear Chemistry, Vol. 298, No. 1, Oct. 2013.
9. Ali M. Al-Bahi, Mahmoud A. Taha, and Nedim Turkmen, "Capstone Design Projects in the Environment of Weak Industry-Academia Interaction," 2014 IEEE Global Engineering Education Conference (EDUCON), Istanbul, Turkey, April 2014. Downloadable from ieeexplore data base at:  
<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6826112>

### Recent Professional Development Activities (*Workshops, training, etc.*)

1. ABET Program Assessment Workshop, Ashley Ater Kranov, Managing Director, ABET Professional Services, King Abdulaziz University, Jeddah, Saudi Arabia, Feb. 2012.
2. Engineering Learning Outcomes Workshop, National project for assessing the higher education learning outcomes, Quias Centre, Ministry of Higher Education, Riyadh, Saudi Arabia, Sept. 2012.
3. ABET Institute for the Development of Excellence in Assessment Leadership (IDEAL) Workshop, Gloria Rogers, ABET Foundation, King Abdulaziz University, Jeddah, Saudi Arabia, Sept. 2013.