

Personal Details : Ali Abadallah Hilal-Alnaqbi 1976	
Education	Executive MBA. (Distinction GPA 3.8) BSc. MSc. PhD. (Scotland) Post-doc Fellow (Harvard) Fellow BWH
Contact email	alihilal@uaeu.ac.ae
Address	UAE University, COE, Dep. of Mechanical Engineering, P.O.Box 15551 Al-Ain
Experience	
Beside my following degrees in Engineering, I am a research fellow of Harvard Medical School, a Postdoctoral research fellow of BWH and I hold a Distinction degree in Executive MBA from Suffolk university in Boston. I Started my career in 2005 when I joined International holdings group IHG in Dubai as bio-initiative project manager and then as business development division manager. During that time and under my supervision, successfully Tejoori Ltd launched and listed in London stocks market. In 2006, I Started my Post-Doc fellowship at Harvard in Boston and gained my fellow certificate in 2009. I Joined UAE University in 2009 as an assistant professor till to date in engineering. I have many publications in my field, mainly 3-Compartments bioreactor (so-called FIF), Bioengineering, Nano technology, Biomaterials, Modeling and 3D cell culturing. I have over 15 journal papers and conference proceedings in the field of bioengineering. I always publish in high impact factor journals. My current career embraces major administrative and academic themes. I rose of total \$122,000 for research and \$45m for Spin-Offs. Long time before all this, I have earned my Bachelor's Degree in medical engineering from Glasgow Caledonian University in Scotland, in 1999, and my Master's Degree in Medical engineering from the University of Strathclyde in Scotland in 2000. In 2001, I joined PhD program in the University of Strathclyde in Scotland in Bioartificial devices. I was awarded a PhD degree in 2005 for my outstanding achievements in Bioartificial liver devices studies. I served as member of many boards in private, and government sectors. As an executive, I have developed excellent managerial skills through attending a number of training courses, seminars and workshops. Through which, I have acquired a wealth of experience, knowledge, and skills in many aspects related to leadership such as: operational leadership, product design and development, strategic management, financial planning, effective managerial, and negotiation and behavior skills. During my fellowship at Harvard, I have been to many developing countries like Vietnam, and have seen many ways to let students think positively towards high positive Growth Domestic Product, to think out of the box as entrepreneurs, to solve in designing, to understand by cases analysis, and to behave ethically. With my unique mix of business and research background, I have good overview on market and product for student's research and assessments placement. With my expertise in the bioreactors and the uniqueness of the FIF bioreactor, my graduate project students won two competitions in design and technology. Currently I teach Bioengineering, introduction to bioengineering, biomechanics and bioinstrumentation to undergraduate students; and action project, product development, entrepreneurship and engineering economy for master in engineering management. Recently, we have awarded a grant to study the UAE market and society for any innovation deficits. Federal Demography Council funds this work to identifying enablers for Product Innovation in the United Arab Emirates. In other words, How to foster innovation within Emirati society. The deliverables in the final report, under writing stage, will include interviews of 50 executives and CEOs. At the time you read this Resume, our new and patented FIF bioreactor is selected for commercialization opportunities. It is under deep-dives exercise with Takamul Commercialization initiative.	

Sep 2014-	Chair Department of the mechanical engineering UAEU
Sep 2014-	Acting Assistant Dean Research and Graduate Studies, College of Engineering UAEU
Sep 2009-2014	Assistant professor, UAE University
• Taught different courses in bioengineering and Engineering economy, Post and under graduate. • Successfully established internally funded individual research projects. • I served as an academic and graduation project advisor for all engineering students. ▪ Changed master in engineering economy program from 2CH to 3CH. ▪ New courses descriptions were created and benchmarked with no less than 10 universities worldwide. ▪ Establish new marketing practice into new developed marketing strategy to buzz the market, build awareness and increase the enrolment to the MEM program. ▪ Submitted a proposal to change the master programs in four categories, (1)Management of the MEM program. i.e. how the MEM is managed, (2)Respect for the professionals, (3)Academic content and policies, and (4)Reinvestment in the program. ▪ Developed new course descriptions, and curriculum for master program. ▪ Survey was conducted to check the supply and demand of any new master programs. ▪ Supervised two graduation projects in bioengineering and artificial organs. ▪ Supervised and published more than 30 business plans and feasibility studies in different fields. ▪ Participate in the UAE delegate for China-Gulf states symposium, Economic transformation. ▪ Coordinate more than 10 technical and graduation projects. ▪ Participate as college and department examiner in UAEU for industrial training projects. ▪ Participate as college and department examiner in UAEU for graduation projects. ▪ Participate in master in engineering management executive development committee. ▪ Participated as Chair or Member in many other committees, workshops and conferences. ▪ Presented or/and participate in many local and international conferences. ▪ Supervised a delegate to the World future energy summit. ▪ Member of Mechanical engineering business proposal competition committee. ▪ Member of the judges' panel of the mechanical competition award. ▪ Chair of the mechanical open day. ▪ Research funds in total worth AED 706,000 (\$200,000). ▪ Member: UAEU delegate for American Council for Education ACE ▪ Senator, UAEU faculty-University Council ▪ Member, Students Appeal Committee ▪ Taught more than 480 students in the last 4 years ▪ Encouraged students to participate in the competitions and science seminars ▪ Won two awards for students competitions	
Sep 2019-	Associate Professor, UAE University
• Participate in ABET committee at college level • University Graduate Studies Committee •	
Dec 2006-Nov 2009	Teaching assistant, UAE University, Faculty of Engineering
• Provided instructional support as needed to accomplish the teaching mission of the University. • Facilitated instruction or assist with tasks directly related to the instruction of university classes. • Assist in the preparation of classroom materials and lectures.	
March 2006 - Nov 2006	Manager, business development division, International Holdings group
• Spearheaded the growth and development of Bio-Initiative. • Leading a global team of international business experts carrying out cutting-edge research and development on trends and biotech prospects. • Preparing and conducting hundred-millions dollar Bio-Initiative spin-offs, joint ventures and equity offerings for long-term venture returns.	
March 2005-March 2006	Manager, fund raising for Tejoori Ltd
• Successful capital raised of \$50 million for Tejoori	

March 2005-March 2006 \$5 million fund raising for Omniyat real estate company based in Dubai	
Nov 2006 - Member of board of directors at Crown Prince court	
- Hired by the Abu Dhabi Crown Prince court to develop and launch an international centre, college and company for organics agricultural. - One of the main objective as a committee is to establish new curriculum that meets the Abu Dhabi economic diversification 2030 vision.	
Education	
Nov 2007 - Dec 2009 Postdoctoral Research fellow, Harvard Medical School, Boston	
Nov 2007 - Dec 2009 Postdoctoral research fellow, BWH, Boston	
Aug 2013- Jun 2014 Visiting Assistant Professor, Harvard Medical School, Boston	
- Part of number one in the world team in renal research and medicine. - Looking for the possibility of developing a new device which will incubate the renal cells for kidney injuries. Device that mimics my fibre in fibre bioreactor. - Looking for the possibilities of using embryonic stem cells and their differentiation abilities to renal cells for cells transplantation and developing kidney artificial device. - Supervising medical Students in the lab. - Looking for the possibilities of 3D culturing with collagen and co-culturing.	
June 2007 - Nov 2008 Distinction Award, Executive MBA, Suffolk University, Boston	
- With leadership concentration, the MBA program provides me with the ability to think out of box and to solve the Problems in the real time. - Build on my group working ability and strengthen my leadership skills. - Expose me to the real business world. - Innovation and case study style are two elements that made me students with entrepreneur mentality. - Build the skills in team working	
2000 – 2005 PhD, Bioengineering, Glasgow	
Worked on bioartificial liver devices and Created new device based on new three-compartment theory.	
1999 MSc, Bioengineering, Glasgow	
- A new biosensor was created - Gained deep understanding of biosensors and the applications of medical devices.	
1996 – 1999 B.S.c, Medical Engineering, Glasgow	
Awards	
2006	Sheikh Rashid Prize for UAE Nationals for academic excellence, Dubai
2001	Sheikh Rashid Prize for UAE Nationals academic excellence, Dubai
2008	First place award sailing championship, teambuilding competition, Florida
2007	Dean's award for the best practice in marketing strategy, Boston
2008, Merit	Certificate of Merit for the 2008 International conference of systems Biology and Bioengineering, London.
2010, Merit	Certificate of Merit from UAE Embassy in US for the achievements in studies the US
2011	Erasmus-Mundus Scholarship Award
2012	Japan/UAE researcher scholarship exchange award
2012, Award	3 rd winner prize GCC Innovation Competition
2012, patent	UK - Patent Application No. 1210685.2 for a " Serviceable Bioreactor"
2013, Award	3 rd Winner award National Innovation Shabab Set Up Competition, Abu Dhabi
2013, Patent	US- Patent Application No. USPTO 13863123 on April 15 th 2013
2013	Emirati Faculty Research Mobility Award, Emirates Foundation, Abu Dhabi
Grants	

2010 PI	AED 20,000(\$5.5k): Seed grant, UAEU; Product design and development
2012 PI	AED 30,000 (\$8.8k): Seed Grant, Engineering Faculty; Biotechnology research
2011 Co-PI	AED 248,000 (\$69k): Federal Council Demography; Innovation research
2011 PI	AED 38,335(\$11k): Grant Award, support of participation of UAEU students in the World Future Energy Summit, Emirates Foundation, Abu Dhabi
2012 PI	AED 120,000 (\$33k): Engineering Faculty; Bio and Nano Technology research
2013 PI	AED 160,000 (\$44k): External grant, NRF U-IRCA 2013 Award): Emirates Liver Assist Device (EmLAD) for liver failure treatment using activated carbon (Charcoal) produced from local plants and date pits.
2013 PI	AED 50,000(\$14k): External grant, NRF Emirati Faculty Research Mobility Award (EFRMA2013)
2014 Co-PI	AED 386,000 (\$105k): Internal grant, UPAR, Effective and Rapid characterization of microalgae lipid using radio Frequency Technique
2014 PI	AED 500,000 (\$136k): Internal grant, Start-up Competition, Fibre in Fibre Bioartificial Liver Device (so-called Emirates EmLAD) Evaluation using Adult Stem Cells.
Publications: journals and conferences	
(1) 2006 Manuscript	Hilal AA and Gaylor JDS. 2006. Bioartificial liver: review of science requirements and technology. World review of science, technology and sustainable development. Vol.3(1)pp:80-97
(2) 2008 Conference	Hilal-Alnaqbi A. and Gaylor JDS. 2008. In Vitro testing of a novel Fibre-In-Fibre bioartificial liver (FIF BAL) with bovine plasma. World Congress on Engineering proceedings. Vol. 3. pp:1666-1671
(3) 2008 Conference	Hilal-Alnaqbi A. and Gaylor JDS. 2008. Mathematical model of oxygen transfer rate in the fibre-in-fibre bioartificial liver (FIF-BAL). International Journal of Artificial Organs. Vol. 31(7).
(4) 2010 Manuscript	Hilal-alnaqbi A. and Gaylor JDS 2010. Fibre-in-Fibre Bioartificial Liver device: Initial in vitro testing. International Journal of Biomedical Engineering and Technology. Vol. 6, No. 4 (2011) pp. 323 - 336.
(5) 2010 Conference	Ali hilal-Alnaqbi and J. D. S. Gaylor 2010. FIF bioartificial liver device: oxygen transfer rate expirimental and mathematical studies. World academy of science, engineering and technology. Issue 67 pp: 452-457
(6) 2011 Manuscript	Hilal-Alnaqbi A. ; Yousuf B. and Gaylor JDS. 2011. Fibre in Fibre (FIF) bioartificial liver device: Initial design and prototyping. Computer-Aided Design and applications. Vol. 8(1) pp 99-109.
(7) 2011 Conference	Basem F. Yousef, Abdel-Hamid I. Mourad, Ali Hilal-Alnaqbi' 2011. Prediction of the Mechanical Properties of PE/PP Blends Using Artificial Neural Networks.ICM11. Procedia Engineering Elsevier. Vol. 10. Pages: 2713-2718.
(8) 2011 Conference	Amin Daneshmand Malayeri, Ali Hilal-Alnaqbi, Nikos E. Mastorakis. Mathematical Methods Assessment for New Innovation Performance. 8th International WSEAS conference on Engineering Education. Greece July 2011
(9) 2011 Conference	Shapoor Zarei, Ali Hilal Alnaqbi , Nikos E.Mastorakis and Amin Daneshmand Malayeri. 2011. The International conferences in Florence, Italy, in August.
(10) 2012 Conference	Hilal-alnaqbi A , Mourad A, Gaylor JDS. Oxygen consumption rate of hepatocytes cells: Experimental and Theoritical studies. 10th International Symposium on Biomechanics and Biomedical Engineering. Berlin, Germany
(11) 2013 Manuscript	Basem F. Yousef, Abdel-Hamid I. Mourad, Ali Hilal-Alnaqbi. 2013. Modeling of the mechanical behavior of polyethylene/polypropylene blends using artificial neural network. International Journal of Advanced Manufacturing Technology. Vol.64 pp:601-611
(12) 2013 Manuscript	A. Hilal-Alnaqbi, A. Y. C. Hu, Z. Zhang, M. Al-Rubeai. (2013). Growth, metabolic activity, and productivity of immobilised and freely suspended CHO cells in perfusion culture. Biotechnology and

	applied biochemistry. Vol.60(4) pp:436-445
(13) 2013 Conference	Razan Alkhatib, Ali Abdallah Alnaqbi, Mohamed Al-Rubeai, Sherif M Karam Development of a novel method for the identification of mouse gastric stem cells. Paper, Imagine-Nano Spain 2013.
(14) 2013 Conference	Ali Abdallah Alnaqbi, Razan Alkhatib, Mohamed Al-Rubeai and Sherif M Karam. Biomolecules and NanoStructures 4. Poland 2013
(15) 2013 Manuscript	Ali Hilal-Alnaqbi, Abdel-Hamid I. Mourad, Basem F. Yousef and John D.S. Gaylor (2013) Evaluation of Theoretical Modeling of Oxygen Transfer Rate for the Newly developed Hollow Fiber Bioreactor with Three Compartments. Bio-Medical Materials and Engineering. Vol.23 pp:387-403
(16) 2014 Manuscript	Andelkader dehbi, Abdel-Hamid I. Mourad, Khaled Djakhdane and Ali Hilal-Alnaqbi (2014) Degradation of Thermo-Mechanical Performance and Lifetime Estimation of Multi-layer Greenhouse Polyethylene Films under Simulated Climatic Conditions. Polymer engineering And Science. DOI: 10.1002/pen.23895
(17) 2014 Manuscript	Mahmoud AlAhmed, Sulaiman Al-Zuhair, Hanifa Taher and Ali Hilal-Alnaqbi (2014) RF Microalgal lipid content characterization. Nature Scientific Reports. DOI: 10.1038/srep05108
(18) 2014 Manuscript	Ali Hilal-Alnaqbi, Abdel-Hamid I. Mourad, Basem F. Yousef (2014)Effect of membranes on oxygen transfer rate and consumption within a newly developed three-compartment bioartificial liver device: Advanced experimental and theoretical studies. Biotechnology and applied Biochemistry. DOI: 10.1002/bab.1173
Activities and committees	
2001 – 2009	1. Member of the American Society for Artificial Internal Organs, ASAIO.
2001 - 2009	2. Member of the European Society for Artificial Organs, ESAO
2002 – 2005	3. Representative of Arab students and a special advisor in Lanarkshire council.
2005 -	4. Board member and steering committee member of the emirates association of UK alumni (UAE).
2005 -	5. Member of board of directors in IHG emirates.
2009-2010	6. Chair, Entrepreneur competition award committee
2008	7. Session Chair, international conference of systems Biology and Bioengineering, the World Congress on Engineering, London, UK
2009-	8. Member, Continuous Quality Improvement
2009-	9. Chair, Mechanical Engineering Open House
2009-	10. Member, Applied Mechanics Focus Group
2010-	11. Chair, Department goal 5; Resource diversification
2010-	12. Chair, teachers-parents council, AD Education Council, AlIttihad Private school
2010-	13. Editorial Committee - Emirates Journal for Engineering Research
2010-	14. Mater program development committee, member
2010-	15. Establishing new interdisciplinary master program in quality engineering
2010-	16. International scientific consultant, WASET, engineering and scientific organisation
2011-	17. Member of the judges panel in TOMOHAT SHABAB Program, funded by RUWWAD and presented by Sharjah T.V.
2011-2012	18. Member of Mechanical engineering business proposal competition committee and member of the judges' panel.
2012	19. Member of International Conference on Natural Resource Management in a Changing World
Dec 2012	20. Member: UAE delegate for Arab-Latin American Forum. AbuDhabi
April 2013	21. Member of Judging panel at 1 st think science national competition organized by Emirates foundation.

May 2014	22. Member of Judging panel at 2 nd think science national competition organized by Emirates foundation in Dubai World Trade center.
2014-2016	23. ABET Committee
2014-2016	24. University Graduate Committee
Editorial activities	
2010- to date; Member, Editorial Committee - Emirates Journal for Engineering Research	
2013 – to date; Associate Guest Editor: Special issue for the Journal Biosensors	
Conferences, workshops, training programs and seminars	
1- International conference of systems Biology and Bioengineering in London 2- International talks in Islamic Investments, London 3- CAD 10, International conference and exhibition in CAD, Dubai 4- European Society for Artificial Organs: Annual Meeting, Geneva 5- Management seminar, three days in management, Cape Cod, USA 6- One week Global Seminar in Vietnam 7- One week Leadership Seminar, Key West, Florida 8- Organisations policy development Seminar, one week, Washington 9-Key notes speaker, 2002 UAE Students gathering, London 10-Chairman, 2002 UAE Innovation Students gathering, London 10-Keynotes speaker, 2004 UAE leadership Students gathering, London 11-Keynotes speaker, 1 st UAE student-government meeting, Washington, 2008. 12-Keynotes speaker, third Al-Itihad Private Schools ceremony, 2010. 13-Paper presented in fibre in fibre device presented in ICMBE 2010: International conference on medical and biological engineering, Paris, 2010. 14-Organiser of the upcoming professional development course in Biomedical engineering, collaboration with Boston University in Boston, 2011. 15-Participate in the UAE delegate for China-Gulf states symposium, Economic transformation and common development, China, 2010. 16-Second International Conference on Multifunctional, Hybrid and Nanomaterials, France 2011. 17-Member of the nanotechnology and bioengineering conference committee, AlAin 2011. 18- The 13th GCC Industrialists' Conference and International Exhibition titled "Knowledge-based Industries and New Technologies" 19-Training Workshop on Technopreneurship for south countries, Malaysia September 2011. 20- Erasmus Mundus Program in Ireland 2011 21-10th International Symposium on Biomechanics and Biomedical Engineering. Berlin, Germany 2012 22- Japan/UAE researcher program in Japan. 2012 23- Member of UAEU delegate to Arab-Latin America Forum. Abu Dhabi 24- Research Laboratory Safety General Training, 15 th Oct 2013, Boston, US 25- Speech delivery in London 2014 bio process conference, London, UK.	
Courses taught	
1- Engineering Economy and Entrepreneurship, Economy, financials, Business plans and feasibility studies. 2- Bio-Engineering. 3- Bio-Instrumentation. 4-Master in engineering management: Action project 1: Case studies. 5- Graduation project I, Coordinator, 6 Projects. 6- Graduation project II, Coordinator, 6 Projects. 7- Master in engineering management: Action project II, Business plan and feasibility studies. 8-Select topics in Bioengineering. 9-Graduation Project I, Supervisor, 3 students. 10-Industrial training, Supervisor, 6 students. 12-Master in Engineering Management: Product development and marketing 13- Master in Engineering Management: Action Project (capstone)	
Skills	

Communication and Negotiation skills; Product and departments development
Establishing new business initiatives and new companies
Raising capital for new projects and new firms
Excellent in giving presentations and talks
Very influential in Working with teams