

# DR MOHSEN BAKOURI

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**PERSONAL INFORMATION:** DOB: 06/02/1975,

**Nationality:** Libyan

**Marital Status:** Married with Three kids.

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**CONTACT INFORMATION:** Mobile Number: +218 925252770

**Email:** [mohsen.bakouri@gmail.com](mailto:mohsen.bakouri@gmail.com)

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## JOURNAL INTERVIEW

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- ◆ Link: <http://digital-library.theiet.org/content/journals/10.1049/el.2015.0986>  
Source: Electronics Letters, Volume 51, Issue 8, 16 April 2015, page 590  
DOI: 10.1049/el.2015.0986 , Print ISSN 0013-5194, Online ISSN 1350-911X
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## CAREER PROFILE

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- ◆ Knowledgeable and motivated individual with a background in Biomedical Engineering and development of innovation biomedical technology.
- ◆ Familiar with e-learning environmental teaching.
- ◆ Familiar with the quality assurance tasks and accreditation such as ABET.
- ◆ Extensive research experience in systems and control, signal processing, modeling, system identification, robust control design and filtering.
- ◆ Research experience: highlighted by publications in highly ranked peer-reviewed journals and conferences.
- ◆ Proven background and experience in teamwork to develop and deliver validated program.
- ◆ Excellent supervision and leadership skills proven ability to supervise undergraduate and postgraduate students during their final year theses and research projects.
- ◆ Possesses excellent written and interpersonal communication skills used to clearly interact with colleagues and superiors. Able to work well both independently and as a productive and contributing team member.
- ◆ Proficient in developing of control algorithms for medical devices, possesses a strong understanding of various operating systems, including Windows and OS X, and applies such knowledge toward utilizing compatible and effective software.

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**OBJECTIVE**

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**Associate Professor, Researcher in Biomedical Engineering,  
Academic Accreditation Reviewer**

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**EDUCATION**

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**DOCTOR OF PHILOSOPHY (PHD), IN BIOMEDICAL ENGINEERING**

School of Electrical Engineering and Telecommunications (EE&T), The University of New South Wales (UNSW), Sydney, NSW (2052), Australia, 2014

**Dissertation Title:** *Sensorless Physiological Control of Implantable Rotary Blood Pumps for Heart Failure Patients Using Modern Control Techniques.*

**MASTER OF SCIENCE (MSc.) IN AUTOMATIC CONTROL AND INSTRUMENTATION**

School of Electrical Engineering and Telecommunications, Libyan Academy, Libya, 2007

**BACHELOR OF SCIENCE (B.Sc.) IN ELECTRICAL ENGINEERING**

Department of Electrical and Electronic Engineering, Aljabal Algharbi University, Libya, 1998

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**QUALIFICATION TRAINING**

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**Course Name:** Electrical Engineering Course.

**Period:** July/1999 to March/2000

**Place:** Libya

**Provider:** Dong Ah Consortium Company.

**Course Name:** Electrical Protection Training.

**Period:** 5/July/2007 to 13/July/2007

**Place:** Nurnberg, Germany

**Provider:** Siemens Power Academy.

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**AREAS OF RESEARCH INTEREST**

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1. Biofluid and Physiological control.
  2. Analog and Digital signal processing.
  3. Linear and Non-linear design of control algorithms.
  4. Control Applications: Modelling, estimation, simulation, and control for biomedical devices.
  5. Heat Transfer.
  6. Modelling and design of cardiovascular haemodynamic.
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**SELECTED CERTIFIED TRAINING**

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1. University Teaching Strategies.
2. Use Google Docs.
3. E - Learning Management System.
4. Design presentations using prezi software.
5. Design and construction of e-learning objects.
6. Design and construction of electronic educational objects .... Strategies and tools.
7. Use OneNote program for teaching in distance learning.

## GRANTS

1. Majmaah University: Awarded grant No. IFP-2020-31 with 78400 SR, in the title of project "**Medical Technology and Prevention Injury for People with Special Needs**". (InProgress)
2. Majmaah University research group: Awarded grant No. RGP-2019-33 with 38400 SR, in the title of project "**Biomedical Technologies to improve clinical diagnosis and Support Healthcare Industries**". (Completed)
3. Majmaah University research group: Awarded grant No. RGP-2019-17 with 50400 SR, in the title of project "**Heat transfer research group**". (Completed)
4. Majmaah University: Awarded grant No. 1440-39 with 26400 SR, in the title of project "**Intrinsic Investigation of Physiological Interaction for Pulsatile Rotary Blood Pumps**". (Completed)
5. Majmaah University: Awarded grant No. R-1441-121 with 9600 SR, in the title of project "**Cytokines Blood Filtration Responses in COVID-19**". (Completed)
6. Majmaah University: Awarded grant No. 1440-39 with 10000 SR, in the title of project "**Heat transfer and turbulent simulation of nanomaterial due to compound turbulator including irreversibility analysis**". (Completed)
7. Majmaah University: Awarded grant No. 38/149 with 10000 SR, in the title of project "**Stability Analysis of Darcy-Forchheimer Flow of Casson Type Nanofluid Over an Exponential Sheet: Investigation of Critical Points**". (Completed)
8. Majmaah University: Awarded grant No. 37/84 with 14600 SR, in the title of project "**Non-linear modelling and physiological control algorithm design for implantable rotary blood pump**". (Completed)
9. Majmaah University: Awarded grant No. 39/12 with 12000 SR, in the title of project "**Developing of Non-linear Tracking Control Algorithm for An Implantable Rotary Blood Pumps for Heart Failure Patients**". (Completed)

## SUPERVISOR &amp; CO-SUPERVISOR OF MASTER RESEARCH PROJECTS

Student name	Thesis Title	status	
Naif Eid Alghamdi	H infinity Control of Implantable Rotary Blood Pumps for Heart Failure Patients Using the Relationship Between Cardiac Output and Pump Flow Pulsatility	Supervisor	Completed Fall 2020
Khaled Gasin Alotaibi	Intrinsic Investigation into Physiological Controllers for Cardiac Assist Devices	Supervisor	Completed Fall 2020
Ahmed Ayman A Almedhun	Wall Shear Stress Estimation of Human Carotid Artery Bifurcation Region in Stroke Patients	Co-supervisor	Completed Spring - 2019
Majed Zaid almaymuni	Numerical Investigation of Cancer Tumor Treatment using microwave ablation	Co-supervisor	Completed Spring - 2021
Mishari awad alotibi	Design of Ultra-wideband Microwave Antenna Array for Biomedical applications Detection of Cancer Tumors	Co-supervisor	Completed Fall 2020
NAIF ALYAMI	Design and Evaluation of Ultrasound Network Sensors to Guide Blinds	Supervisor	Completed Spring - 2021
MOHAMMED ALSEHAIMI	CONTROL THE MOVEMENT OF A WHEELCHAIR FOR THE PEOPLE WITH SPECIAL NEEDS THROUGH SMARTPHONE	Supervisor	Completed Spring - 2021
Reshoodi Ahmad Alreshoodi	A feasible evaluation and investigation of the implanted pacemaker for patients with heart disease	Supervisor	Completed Spring - 2021
Sulyman Alhayzani	INVENTORY MANAGMENT SYSTEM FOR NATIONAL BLOOD BANKS IN THE KINGDOM OF SAUDI ARABIA	Co-supervisor	Completed Fall 2021

## BOOK CHAPTER

Title	Doi link
<b>SYMMETRY AND FLUID MECHANIC</b>	<a href="https://doi.org/10.3390/books978-3-03928-427-6">https://doi.org/10.3390/books978-3-03928-427-6</a> <b>ISBN 978-3-03928-427-6 (PDF)</b>
<b>SOLAR ENERGY APPLICATIONS IN HOUSES, SMART CITIES AND MICROGRIDS</b>	<a href="https://doi.org/10.3390/books978-3-03928-069-8">https://doi.org/10.3390/books978-3-03928-069-8</a> <b>ISBN 978-3-03928-069-8 (PDF)</b>

## RECENT PUBLICATIONS

Journal Articles					
Date	Doi Link	Journal Rank	Journal Name	Publisher	Title
2021	<a href="https://doi.org/10.1016/j.jiph.2021.06.005">10.1016/j.jiph.2021.06.005</a>	ISI-Q1	Journal of Infection and Public Health	Elsevier	Clinical characteristics and predictors of mortality among COVID-19 patients in Saudi Arabia
2021	<a href="https://doi.org/10.1177/09544089211013317">https://doi.org/10.1177/09544089211013317</a>	ISI-Q3	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	SAGE Journals	Towards the exact solutions of Burger's fluid flow through arteries with fractional time derivative magnetic field and thermal radiation effects
2021	<a href="https://doi.org/10.4491/eer.2020.182">https://doi.org/10.4491/eer.2020.182</a>	ISI-Q2	Environmental Engineering Research	Korean Society of Environmental Engineers	Investigation of flow dynamic characteristics of inverse fluidized bed biofilm reactor for degrading pharmaceutical based biomedical wastewater
2020	<a href="https://doi.org/10.1142/S0219519420500426">https://doi.org/10.1142/S0219519420500426</a>	ISI-Q4	Journal of Mechanics in Medicine and Biology	World Scientific	NUMERICAL INVESTIGATION ON PRELOAD AND AFTERLOAD SENSITIVITY FOR USING VENTRICULAR ASSIST DEVICE ON HEART FAILURE PATIENTS <b>MOHSEN BAKOURI, MOHAMED YACIN SIKKANDAR</b>
2020	<a href="https://www.mdpi.com/2076-3417/10/17/5895/htm">https://www.mdpi.com/2076-3417/10/17/5895/htm</a>	ISI-Q2	Applied Sciences – Basel	MDPI	Epidemiological Modeling of COVID-19 in Saudi Arabia: Spread Projection, Awareness, and Impact of Treatment, Yousef Alharbi, Abdulrahman Alqahtani, Olayan Albalawi and <b>Mohsen Bakouri</b>
2020	<a href="https://doi.org/10.1159/000508278">DOI: 10.1159/000508278</a>	ISI-Q2	Blood Purification	Karger	Cytokines Blood Filtration Responses in COVID-19, Khaled AL Sharif, <b>Mohsen Bakouri</b>
2020	<a href="https://doi.org/10.1007/s12652-020-01939-7">DOI 10.1007/s12652-020-01939-7</a>	ISI-Q2	Journal of Ambient Intelligence and Humanized Computing	Springer	Different loading condition and angle measurement of human lumbar spine MRI image using ANSYSE. Punarselvam, Mohamed Yacin Sikkandar, <b>Mohsen Bakouri</b> , N. B. Prakash, T. Jayasankar, S. Sudhakar
2019	<a href="https://doi.org/10.3390/app9214593">https://doi.org/10.3390/app9214593</a>	ISI-Q2	Applied Sciences – Basel	MDPI	<b>Bakouri M.</b> Physiological Control Law for Rotary Blood Pumps with Full-State Feedback Method. Applied Sciences. 2019 .Jan;9(21):4593

2019	<a href="https://doi.org/10.1016/j.ijheatmasstransfer.2019.04.030">https://doi.org/10.1016/j.ijheatmasstransfer.2019.04.030</a>	ISI-Q1	International Journal of Heat and Mass Transfer	ELSEVIER	Sheikholeslami, M., Jafaryar, M., Hedayat, M., Shafee, A., Li, Z., Nguyen, T.K. and <b>Bakouri, M.</b> , Heat transfer and turbulent simulation of nanomaterial due to compound turbulator including irreversibility analysis. International Journal of Heat and Mass Transfer, 2019 137, .pp.1290-1300
2019	<a href="https://doi.org/10.3390/sym11030412">https://doi.org/10.3390/sym11030412</a>	ISI-Q2	Symmetry	MDPI	Ali Lund, L., Omar, Z., Khan, I., Raza, J., <b>Bakouri, M.</b> and Tlili, I., Stability Analysis of Darcy-Forchheimer Flow of Casson Type Nanofluid Over an Exponential Sheet: Investigation of Critical Points. Symmetry, .2019, 11(3), p.412
2019	<a href="https://doi.org/10.3390/app9102101">https://doi.org/10.3390/app9102101</a>	ISI-Q2	Applied Sciences – Basel	MDPI	Sarafraz, M.M., Tlili, I., Tian, Z., <b>Bakouri, M.</b> , Safaei, M.R. and Goodarzi, M., Thermal evaluation of graphene nanoplatelets nanofluid in a fast-responding HP with the potential use in solar systems in smart cities. Applied Sciences, 2019, 9(10), p.2101
2019	<a href="https://doi.org/10.1016/j.physa.2019.122146">https://doi.org/10.1016/j.physa.2019.122146</a>	ISI-Q2	Physica A: Statistical Mechanics and its Applications	ELSEVIER	Sarafraz, M.M., Tlili, I., Tian, Z., <b>Bakouri, M.</b> and Safaei, M.R., Smart optimization of a thermosyphon heat pipe for an evacuated tube solar collector using response surface methodology (RSM). Physica A: Statistical Mechanics and its Applications, 2019, 534, .p.122146
2018	DOI: <a href="https://doi.org/10.1049/iet-syb.2017.0052">10.1049/iet-syb.2017.0052</a>	ISI-Q3	Systems Biology	IET	Bakouri, M., 2018. Evaluation of an advanced model reference sliding mode control method for cardiac assist device using a numerical model.
2015	DOI: <a href="https://doi.org/10.1049/el.2014.4330">10.1049/el.2014.4330</a>	ISI-Q2	Electronics Letters	IET	Bakouri, M.A., Savkin, A.V. and Alomari, A.H., 2015. Nonlinear modelling and control of left ventricular assist device.
2014	<a href="https://doi.org/10.1111/aor.12223">https://doi.org/10.1111/aor.12223</a>	ISI-Q2	Artificial Organs	Wily	Bakouri, M.A., Salamonsen, R.F., Savkin, A.V., AlOmari, A.H.H., Lim, E. and Lovell, N.H., A Sliding Mode-Based Starling-Like Controller for Implantable Rotary Blood Pumps.

## Local Journal Within University Research Centers

Date	Link	Journal Name	Publisher	Paper title
2019	<a href="http://my.ejmanager.com/mjhs">http://my.ejmanager.com/mjhs</a>	Accepted to publish in: Majmaah Journal of Health Sciences	College of Applied Medical Sciences/ Majmaah University	<b>Bakouri M.</b> Intrinsic Investigations of Physiological Interaction for Pulsatile Rotary Blood Pumps. Accepted to publish in Majmaah Journal of Health Sciences. 2019
2019	<a href="https://m.mu.edu.sa/en/departments/journal-engineering-and-applied-sciences">https://m.mu.edu.sa/en/departments/journal-engineering-and-applied-sciences</a>	Journal of Engineering and Applied Sciences	College of Engineering/ Majmaah University	<b>Bakouri M.</b> Flow Pulsatility of Heart Pump: State Space Modelling and Control

## International Proceeding Conferences

Conference Date	Doi Link	Rank	Publisher	Place	Conference Name	Paper Title
Jun 25-28, 2019	DOI: <a href="https://doi.org/10.23919/ECC.2019.8795740">10.23919/ECC.2019.8795740</a>	ISI	IEEE Xplore	Napoli, Italy	18 <sup>th</sup> European Control Conference (ECC) IEEE	<b>Bakouri M.</b> Physiological Control Approach for Heart Pump. In 18th European Control Conference (ECC) IEEE, Napoli, Italy Jun 25-28, 2019: (pp. 221-224).
15-17, April, 2019	DOI: <a href="https://doi.org/10.1109/ICM">10.1109/ICM</a>	ISI	IEEE Xplore	Manama, Bahrain	8 <sup>th</sup> International Conference on Modelling,	Ahmed Ayman A Almedhun, Mohamed Yacin Sikkandar and <b>Mohsen Bahouri</b> , Numerical Modeling and Simulation of a Carotid Artery

	<a href="#">SAO.2019.88 80448</a>				Simulation and Applied Optimization	with Dynamic Growth of Aneurysm. In 2019 8th International Conference on Modeling, Simulation and Applied Optimization (ICMSAO), Bahrain, IEEE, April 15-17, 2019. (pp. 427-431)
31 May-3 June 2015	DOI: <a href="#">10.1109/ASCC.2015.7244808</a>	ISI	IEEE Xplore	Kota Kinabalu, Malaysia	10th Asian Control Conference (ASCC)	Bakouri MA, Savkin AV, Alomari AH. A method for physiological control of a cardiac assist device. In 2015 10th Asian Control Conference (ASCC) 2015 May 31 (pp. 1-5). IEEE.
8-10 Oct. 2014	DOI: <a href="#">10.1109/CCA.2014.6981468</a>	ISI	IEEE Xplore	Juan Les Antibes, France	IEEE Conference on Control Applications (CCA)	Bakouri MA, Savkin AV, Alomari AH. A sensorless physiological control algorithm for left ventricular assist device for heart failure patients. In 2014 IEEE Conference on Control Applications (CCA) 2014 Oct 8 (pp. 1017-1022). IEEE.
23-26 June 2013	DOI: <a href="#">10.1109/ASCC.2013.6606105</a>	ISI	IEEE Xplore	Istanbul, Turkey	9th Asian Control Conference (ASCC)	Bakouri MA, Salamonsen RF, Savkin AV, Lim E, Alomari AH, Lovell NH. Feasible approach to control the operation of implantable rotary blood pumps for heart failure patients. In 2013 9th Asian Control Conference (ASCC) 2013 Jun 23 (pp. 1-6). IEEE.
3-7 July 2013	DOI: <a href="#">10.1109/EMBC.2013.6609590</a>	ISI	IEEE Xplore	Osaka, Japan	35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)	Bakouri MA, Salamonsen RF, Savkin AV, Alomari AH, Lim E, Lovell NH. Physiological control of implantable rotary blood pumps for heart failure patients. In 2013 35th annual international conference of the IEEE engineering in medicine and biology society (EMBC) 2013 Jul 3 (pp. 675-678). IEEE.

#### Reports in arXiv

Submitted Date	Link	Author	Paper title
10 May 2014	<a href="https://arxiv.org/abs/1405.2419">https://arxiv.org/abs/1405.2419</a>	M. A. Bakouri	Sensorless Physiological Control of Implantable Rotary Blood Pumps for Heart Failure Patients Using Modern Control Techniques

#### Local Conferences - KSA

Conference Date	Link	Type of Contribution	Place	Conference Name	Author	Paper title
25-27, Sep 2018	<a href="https://www.sfda.gov.sa/En/Pages/default.aspx">https://www.sfda.gov.sa/En/Pages/default.aspx</a>	Abstract	Riyadh, Saudi Arabia	SFDA CE18	M. A. Bakouri	Validation of Physiological Controller for Cardiac Assist Devices
4-5 May 2016	<a href="https://www.mu.edu.sa/ar/node/44616">https://www.mu.edu.sa/ar/node/44616</a>	Abstract	Majmaah University	in Injuries Symposium Prevention and Methods of Treatment & Rehabilitation	Mohsen A. Bakouri	Feedback Pulsatility Flow controller for Cardiac Assist Devices

**ACADEMIC RECORD**

Job Rank	Place and Address of Work			Date
Associate Professor	Department of Medical Equipment Technology	College of Applied Medical Sciences, Majmaah University	Majmaah, Saudi Arabia	Jun 2020 - June 2021
Assistant Professor	Department of Medical Equipment Technology	College of Applied Medical Sciences, Majmaah University	Majmaah, Saudi Arabia	Jan 2016 - Jun 2020
Research Assistant	School of Electrical Engineering and Telecommunications, and Graduate School of Biomedical Engineering	Faculty of Engineering, The University of New South Wales (UNSW)	Sydney, NSW, Australia	May 2011 - Sep 2014
Lecturer	Department of Physics	Sebha University, College of Sciences, Taraghen	Taraghen, Libya	Feb 2007 - Feb 2011
Adjunct lecturer	Department of Electrical Engineering	Sebha Higher Institute of polytechnic	Sebha Libya	Sep - 2009 to Feb - 2010
Adjunct lecturer	Department of Electrical Engineering	Oum Alaranib Higher Institute of polytechnic	Oum Alaranib Libya	Feb - 2008 to Feb - 2011

**ADMINISTRATION RECORD**

Job Rank	Place and Address of Work			Date
Head of Development and Planning Unit	College of Applied Medical Sciences,	Majmaah University	Majmaah, Saudi Arabia	March 2019 - June 2021
Head of Committee for the development of curricula and study plans	Department of Medical Equipment Technology	College of Applied Medical Sciences, Majmaah University	Majmaah, Saudi Arabia	Dec 2018 - October 2020
Head of scientific Committee	Department of Medical Equipment Technology	College of Applied Medical Sciences, Majmaah University	Majmaah, Saudi Arabia	Sep 2018 - October 2020
Secretary Department	Department of Medical Equipment Technology	College of Applied Medical Sciences, Majmaah University	Majmaah, Saudi Arabia	Jan 2018 - Ongoing
Head of internship unit	College of Applied Medical Sciences,	Majmaah University	Majmaah, Saudi Arabia	Sep 2017 - Oct 2018

Director of academic studies and examinations	College of Sciences, Taraghen	Sebha University,	Taraghen, Libya	May 2008 – Feb 2011
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**COURSES TAUGHT**


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**1. College of Applied Medical Science, Majmaah University, Al Majmaah, Saudi Arabia**
**a) Master's degree Courses:**

No	Subject Name	Subject code	Semester
1.	Research Methods	BME 615	Fall 2017
2.	Research Project	BME 625	Fall 2018
3.	Design Standards and Regulations for Medical Devices	BME 633	Fall 2019
4.	Mathematical Methods for Biomedical Engineers.	BME 611	Spring 2019
5.	Biostatistics	CLS 603	Spring 2019

**b) Bachelor's degree Courses**

No	Subject Name	Subject code	Semester
1.	Electromechanical & Pneumatic Controls	MET 364	Fall 2019 to Present
1.	Biophysics	MET 234	Fall 2016 to 2018
2.	Physics for Medical Equipment	MET 242	Spring 2016 to 2019
3.	Digital signal processing	MET 471	Fall 2016 to present
4.	Electrical Circuits	MET 243	Spring 2016 to present
5.	Lab of Electrical Circuits	MET 243	Spring 2016 to present
6.	Biomedical Control System	MET 593	Fall 2016 to present
7.	Lab of Biomedical Control System	BMTS491	Fall 2016 to present
8.	Basic Mathematical	MET 233	Spring 2016
8.	Applied Mathematical 1	MET 241	Spring 2019
9.	Biostatistics	CAMS 233	Fall 2017
10.	Analog medical signal processing	MET 361	Fall 2018

**2. Department of Physics, Faculty of science, SEBHA University, Libya**

No	Subject Name	Subject code	Semester
1.	Fundamentals of Physics	PH-101	Spring-2008; Spring 2010



2.	LAB of Physics	PH-102	Spring-2008
3.	Electrical of Physics	PH-302	Fall-2008; Spring-2009; Spring-2010
4.	Electromagnetics of Physics	PH-402	Fall-2008; Spring-2009
5.	Mathematical tools for Physics	PH-603	Spring-2009; Fall-2009
6.	Foundations of Statistical	ST-101	Fall-2009

3. Department of Electrical Engineering, Higher Institute of polytechnic, Oum Alaranib,  
Libya

No	Course Name	Course code	Semester
1.	Control System and Instrumentation	EE-101	Fall-2008; Spring-2009; Fall-2009; Spring-2010, Fall 2010.
2.	Power System I	EE-102	Fall-2008; Spring-2009; Fall-2009; Spring-2010, Fall 2010.

4. Department of Electrical Engineering, Higher Institute of polytechnic, Sebha, Libya

No	Course Name	Course code	Semester
1.	Control System and Instrumentation, I	EE-101	Fall-2009
3.	Protection System	EE-412	Fall-2009

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### INDUSTRY EXPERIENCE

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**WA ELECTRICAL PTY LTD, SYDNEY, AUSTRALIA**  
**Construction Electrical Engineer** Jul - 2015 to Dec 2015

**HANNA BAL ENGINEERING CONSULTANCY TRAGHEN, LIBYA**  
**Consultant Electrical Engineer** Sep - 2008 to Dec - 2011

**GMR (GREAT MAN-MADE RIVER) WATER SUPPLY PROJECT, LIBYA**  
**Project Engineer**, Jan - 2005 to Jan - 2007

**GMR (GREAT MAN-MADE RIVER) WATER SUPPLY PROJECT, LIBYA**  
**Senior Electrical Engineer**, Feb - 2003 to Dec - 2004

**BROWN & ROOT NA LTD COMPANY (BRNA - WATER SUPPLY PROJECT), LIBYA**  
**Consultant Electrical Engineer**, Jan - 2000 to Feb - 2003

**GECOL COMPANY, LIBYA**  
**Electrical Engineer**, May - 1998 to May - 1999

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### MEMBERSHIP OF SCIENCE, COUNCILS, AND PROFESSIONAL SOCIETIES

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- ◆ Member of the Institute of Electrical and Electronics Engineers (IEEE), 2014 – present
  - ◆ IEEE Engineering in Medicine and Biology Society, 2017 to present.
  - ◆ IEEE Control Systems Society, 2017 to present.
  - ◆ Graduate Student member of Institute of Electrical and Electronics Engineers (IEEE), 2011-2014
  - ◆ Mentoring new IEEE members at UNSW, 2011-2014
  - ◆ IEEE Nanotechnology Council, 2017 to 2018
  - ◆ IEEE Sensors Council, 2017 to 2018
  - ◆ IEEE Systems Council, 2017 to 2018
  - ◆ IEEE Council on Electronic Design Automation, 2017 to 2018
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### PROFESSIONAL SERVICE

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- ◆ Serving as a reviewer for Artificial Organs journal. Since 2013
  - ◆ Serving as a reviewer for Medical & Biological Engineering & Computing. Since 2013
  - ◆ Serving as a reviewer for Cardiovascular Engineering and Technology journal. Since 2020
  - ◆ Serving as a reviewer for Journal of Intelligent & Fuzzy Systems. Since 2020
  - ◆ Designated reviewer in Conferences:
    - 8th International Conference on Modeling, Simulation and Applied Optimization (ICMSAO), Bahrain, IEEE, April 15-17, 2019.
    - 3rd SMART CITIES SYMPOSIUM & HACHATHON 12-14 APRIL 2020, University of Bahrain.
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### TECHNICAL SKILLS

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- ◆ Applications/Tools: MATLAB, Labview, Lab chart, Python, SPSS, Labview, C++, AutoCAD, MS Office Suite.
  - ◆ Operating Systems: Windows, OS X.
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### PRESENTATIONS AND TALKS

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- ◆ “Physiological Control Approach for Heart Pump”. **In 2019 18th European Control Conference (ECC) Jun 25, 2019**
  - ◆ “Feasible Approach to Control the Operation of an Implantable Rotary Blood Pumps for Heart Failure Patients,” **9th Asian Control Conference, Istanbul, Turkey, June 23-26, 2013.**
  - ◆ “Physiological Control of Implantable Rotary Blood Pumps for Heart Failure Patients,” **35th IEEE Engineering in Medicine and Biology Society, Osaka, Japan, July 3-7, 2013.**
  - ◆ “Sensorless physiological controller for an implantable rotary blood pump for heart failure patients,” **2014 IEEE Multi-Conference on Systems and Control (IEEE MSC 2014), Nice, France.**
  - ◆ “Feedback Pulsatility Flow controller for Cardiac Assis Devices" **in Injuries Symposium Prevention and Methods of Treatment & Rehabilitation, Majmaah University 4-5 May 2016.**
  - ◆ “Validation of Physiological Controller for Cardiac Assist Devices " **2ed SFDA Annual Conference and Exhibition (SFDA CE18), Riyadh, Saudi Arabia, 25-27, Sep 2018.**
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### AWARDS AND HONOURS

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- ◆ Achievement of Dean's Award for Academic Excellence, 2019/2020.
- ◆ Awarded Post-Graduate Research Student Support (PRSS) travel grant that jointly offered by The Graduate Research School and The Faculty of Engineering, The University of New South

Wales, to present a paper at 35st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC2013), **Osaka, Japan.**

- ◆ Best Application Paper Award at the 9th IEEE Asian Control Conference (ASCC), 23-26 June 2013, Istanbul, Turkey.
- ◆ Selected for the 2012 Dean's Award for Excellence in Postgraduate Research. The Award was established to recognize outstanding research in engineering and applied sciences being conducted by postgraduate research students in the Faculty of Engineering at UNSW Sydney and UNSW Canberra.
- ◆ Selected for 3-Minute Thesis Competition by the Faculty of Engineering at UNSW, 29th July 2013.

### SERVICE TO THE UNIVERSITY

- ◆ Member of Department Council, Majmaah University, Department of Medical Equipment Technology, College of Applied Medical Science, 02/01/2016 (Ongoing).
- ◆ Committee member of Management Research Scientific Committee, Majmaah University, Department of Medical Equipment Technology, College of Applied Medical Science, 01/03/2016 (Ongoing). My role is to preparation mechanism to assist faculty members to conduct joint research with colleagues at other institutions in the world and provide adequate budget and financing the necessary facilities and devices for scientific research and Panel discussions held with the program team and other programs.
- ◆ Committee member of Quality Assurance Tasks, Majmaah University, Department Of Medical Equipment Technology, College of Applied Medical Science, 01/03/2017 (Ongoing). My role is to review quality assurance system program and preparing quality reports in coordination with quality management team.
- ◆ Head of training Committee, Majmaah University, Department Of Medical Equipment Technology, College of Applied Medical Science, 01/09/2016 (Ongoing). My role is to direct supervise the graduate students in hospital and Hold a forum graduate recruitment.
- ◆ Committee member of preparation the proposal for Master of Sciences in Biomedical Engineering, Majmaah University, Department of Medical Equipment Technology, College of Applied Medical Science, 01/02/2017 (Ongoing). My role is to provide the courses curriculum for the whole courses.
- ◆ Committee member of Assessment & Statistics Committee, Majmaah University, Department of Medical Equipment Technology, College of Applied Medical Science, 01/5/2016 (completed). My role is to prepare sessions to train faculty members on ways to determine the desired learning outcomes and description of courses depending on these products and review the learning outcomes for each curriculum program.
- ◆ Member of Department Council, Sebha University, Department of Physics, College of Science, 01/07/2007 (Completed). My role is to prepare mechanism to assist faculty members to conduct joint research with colleagues at other institutions in the world.
- ◆ Committee member of Equipment and Lab committee, Sebha University, Department Of Physics, College of Science, 01/10/2008 (Completed). My role is to prepare a study on the modernization of laboratory equipment program.
- ◆ Committee member of Quality Assurance Tasks, Sebha University, Department Of Physics, College of Science, 01/01/2015 (Completed). My role is to review quality assurance system program and preparing a workshop on how to implement the program of quality assurance management system.

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