



Nazeeh Shuja Alothmany

Associate Professor

Electrical/Biomedical Engineering, King
Abdulaziz University, Jeddah

Email: nothmany@kau.edu.sa,

URL: <http://nothmany.kau.edu.sa>

Blog: <http://alothmany.me>

Twitter: [@nothmany](https://twitter.com/nothmany)

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Vision

- To contribute in preparing generations of proactive, innovative and professionals in technology applications in general and Biomedical Engineering in particular and to become an active inventor and researcher in Biomedical Engineering applications. I seek to work towards establishing a knowledge based economy and society through promoting entrepreneurship, localization of technology and supporting gifted students..

Educational Background

Jan 2018 - Present

Associate Professor, Electrical and Computer Engineering Department (Biomedical Option), King Abdulaziz University, Jeddah, Saudi Arabia.

August 2009 – Dec 2017

Assistant Professor, Electrical and Computer Engineering Department (Biomedical Option), King Abdulaziz University, Jeddah, Saudi Arabia.

Schools Attended

- Aug 2009, Phd Electrical and Computer Engineering, University of Pittsburgh, Pittsburgh, PA, USA.
- Dec 1999, MSc Electrical and Computer Engineering-Bio-Systems, University of Michigan Ann Arbor, USA.
- May 1993, BSc of Electrical and Computer Engineering-Biomedical Option, King Abdulaziz university, SA.
- May 1987, High School, Althaghur schools, Makkah road, Jeddah, Saudi Arabia.

Research Interests

- Biomedical Signal Processing, Instrumentation, Image and speech processing, Rehabilitation, Quality assurance, Active learning, Giftedness and innovation, technology applications and Radiation protection.

Courses Taught

- Biomedical Instrumentation and Design, Biomedical Signals and Systems, Basic Electric Engineering, Electrical Engineering Technologies, and Image Processing.

Professional Experience

WHO Medical Devices Expert, Oct 2016 - Now

- Member IVD regulations committee, Biomedical Engineering Expert

Certified Instructor for the "Total Leader" program, Jan 2012 - Now

- The Leadership Management Institute, Texas USA (Jeddah branch)

Vice Executive President for Medical Devices (Sep 2015 – Sep 2018)

- Vice Executive President for Medical Devices at Saudi Food and Drugs Authorities (SFDA)

Saudi Standards, Metrology and Quality Organization (Sep 2015 – Sep 2017)

- Board member

Consultant Vice Minister of Health (March 2014- July 2015)

- Consultant for the Vice Minister of Health for Planning and Development and project manager for Ministry of Health investment plan.

Consultant Deputy Minister of Health (Feb 2013-March 2014)

- Consultant for The Deputy Minister of Health for Planning and Health Economics and Project manager for Medical Equipment manufacturing initiative.

Part-time Consultant (Sep 2011-Sep 2012)

- Knowledge and Alliance-Business Incubators at King Abdulaziz University

International Collaboration Coordinator (Jan 2011-Sep 2013)

- College of Engineering, King Abdulaziz University, Jeddah, Saudi Arabia.

Consultant, Quality Assurance in Biomedical Engineering Services (2009-Sep 2013)

- Business Schema Trading Establishment, Jeddah, Saudi Arabia
- President of Biomedical Engineering/Radiation Protection House of Experts (King Abdulaziz University)

Consultant, Summer Programs for Gifted Students (Dec 2010-Jun 2011)

- King Abdulaziz and his men foundation for talent and giftedness, Riyadh, Saudi Arabia

Summer Training Coordinator (1997-1999)

- Elsief development (GE Medical systems), Jeddah, Saudi Arabia.
- Coordinating/supervising summer training program at the company.

Service Engineer (1993-1996)

- Elsief development (GE Medical systems), Jeddah, Saudi Arabia.
- X-Ray, Ultrasound and Laser Imagers service engineer.
- Service, Installing 5 X-Ray rooms, 3 CTs, 1 MRI, 7 laser imagers, and 4 Ultrasound machines.

Second Summer Training (10 weeks, Summer 1992)

- Alsalamah Hospital (currently king Faisal specialist hospital), the Biomedical Engineering Department in.
- Maintenance of medial devices, troubleshooting, and preventive maintenance.

First Summer Training (10 weeks, Summer 1991)

- Alkaki medical services at King Abdulaziz University hospital biomedical engineering department.
- Maintenance of medial devices, troubleshooting, and preventive maintenance.

Current and Past Projects

- Innovation:
 - Economic home based ECG monitor.
 - Economic home based Blood Pressure monitor.
 - BP controlled Motor for Diabetic Foot treatment.
 - System for Diabetic foot treatment.
 - Infra-red bio-Telemetry
 - Identifying Normal ECG using time frequency analysis
 - Hospital Equipment Localizing system
 - Controlling Treadmill using heart rate
- Funded Projects and Research:
 - OSL Technology for Radiation Measurement (King Abdulziz Science and Technology (KACST) funded strategic projects, PI).
 - Nanofabrications in bone healing (King Abdulziz Science and Technology (KACST) funded strategic projects -COI)
 - Urology Voiding Diagnosis System (King Abdulaziz University funded project, PI)

- Marker less Motion tracking and correlation with EMG (King Abdulaziz University funded – COI)
- Reduction of Breathing effect on MRI images (King Abdulaziz University funded-COI)
- Design and Specifications of Schools for Gifted Students (Funded by Ministry of Education- COI)
- Classification of Visemes using visual cues (PhD thesis)

Memberships and Committees (Professional)

- Member of World Health Organization (WHO) expert committee on Specifications for Pharmaceutical Preparations (Oct 2016 – Present)
- Member Medical Devices Scientific Committee as Saudi Health Council (June 2016 – Present)
- International Electrical and Electronics Engineering Society (IEEE), (2005-Present).
- Saudi Engineering Council as a Consultant Engineer (2010-Present).
- Board Member Saudi Scientific Society for Biomedical Engineers (Jan 2016-Present)
- Treasurer "Rofaida Women Health Society", April 2015-Present
- Chair of Saudi Scientific Society for Biomedical Engineering (Jan 2011- Jan 2016).
- Member of Medical Equipment Committee at Jeddah Chamber of Commerce (May 2011-Sep 2015)
- International Collaboration Coordinator, College of Engineering, King Abdulaziz University (Feb 2011- Sep 2013).
- Chairman of Engineering and Science Track in the 4th Scientific Conference for Higher Education students that was held in 2013 Umm Alqura University in Makkah and received of more than 3000 submission,
- Senior Project committee, Electrical and computer engineering department, KAU, (2010-Sep 2012).
- Judging Science Projects in student competitions (Ibtikar 2010, Ibda Ministry of education contest, Robotech contest at Jeddah private schools).

Selected Publications

1. Alothmany, N., Mosli, H., Shokouejad, M. et al., Critical Review of Uroflowmetry Methods", J. Med. Biol. Eng. (2018) 38: 685. <https://doi.org/10.1007/s40846-018-0375-0>
2. Alshagathrh, F., Khan, S. A., Alothmany, N., Al-Rawashdeh, N., & Househ, M. (2018). Building a cloud-based data sharing model for the Saudi national registry for implantable medical devices: Results of a readiness assessment. *International Journal of Medical Informatics*, 118, 113-119.
3. Khan F, Aldahri M, Hussain MA, Gauthaman K, Memic A, Abuzenadah A, Kumosani T, Barbour E, Alothmany NS, Aldaheri RW., " Encapsulation of 5-Flurouracil into PLGA Nanofibers and Enhanced Anticancer Effect in Combination with Ajwa-Dates-Extract (Phoenix dactylifera L.)", J Biomed Nanotechnol. 2018 Mar 1;14(3):553-563. doi: 10.1166/jbn.2018.2515.
4. Mehdi Shokouejad, Rayan Alkashgari, Hisham A. Mosli, Nazeeh Alothmany, Jacob M. Levin, John G. Webster, "Video Voiding Device for Diagnosing Lower Urinary Tract Dysfunction in Men", Journal of Medical and Biological Engineering, June 2017, pages 1-10
5. Muhammad Yusuf, Nazeeh Alothmany, Abdulraheem Abdulrahman Kinsara, "Organ dose measurement using Optically Stimulated Luminescence Detector (OSLD) during CT examination, Radiation Physics and Chemistry", Volume 139, October 2017, Pages 83-89, ISSN 0969-806X, <https://doi.org/10.1016/j.radphyschem.2017.05.006>. (<http://www.sciencedirect.com/science/article/pii/S0969806X16307277>)
6. US Patent, US 9,649,045, " Pneumatic circulatory enhancer for diabetic leg therapy", Alnabulsi; Baraa, Al-Sawaf; Alwaleed, Alothmany; Nazeeh, Turkmen; Nedim, Diken; Hamza, Aqeil; Abdulelah,
7. US Patent, US 9,424,734 B1, "Device to Monitor Distance between People", Sarah Hagi, Jeddah (SA); Nazeeh Alothmany, Jeddah (SA); John G. Webster, Madison, WI (US); et. al, Assigned to King Abdulaziz University, Jeddah (SA). Filed by King Abdulaziz University, Jeddah (SA), Filed on Dec. 3, 2015, as Appl. No. 14/958,906.
8. " A methodology for on-board CBCT imaging dose using optically stimulated luminescence detectors", Noor Mail, Muhammad Yusuf, Nazeeh Alothmany, A. Abdulrahman Kinsara, Fahad Abdulkhaliq, Suliman M. Ghamdi, Abdelhamid Saoudi, Journal of Applied Clinical Medical Physics, Vol 17, No 5 (2016), DOI: <http://dx.doi.org/10.1120/jacmp.v17i5.6378>
9. "Characterization of optically stimulated luminescence for assessment of breast doses in mammography screening", N. Alothmany, N.I. Molla, M. Yusuf, A. Hussain, N. Mail, D. Alothmany, M.A. Khafaji, H. Natto, M. Tayeb, F. Nadwi, A. Jiman and A.A. Kinsara, Radioprotection, March 2016, Vol 51, issue 1, DOI <http://dx.doi.org/10.1051/radiopro/2015032>
10. Novel "Scholarship journey, between westernization and easternization", Mdarek publishing, Feb 2016, ISBN 978-614-429-942-5

11. "Electrical Engineering Measurements Technologies", Textbook, Scientific Publishing Center, King Abdulaziz University, 2014. ISBN 978-9960-06-677-6
12. "Characterization of Fibrous Scaffold using Quantitative Nano-Mechanical Mapping Mode of Atomic Force Microscope", Mohammad A. Hussain, Adnan Memic, Nazeeh S. Alothmany, Rabah W. Al-dhaheri, Faten Al-hazmi, Hani A. Alhadrami, and Ali Khadem Hosseini, International Journal of Basic and Applied Biology, Print ISSN: 2394-5820, Online ISSN: 2349-2539, Volume 2, Number 6; July-September, 2015, pp. 364-367
13. "Feasibility study of Markerless Gait tracking using Kinect", Ehab Hafez, Afzal Khan, Majdi Alnowaimi, Ali H. Morfeq, Nazeeh Alothmany, Life Science Journal (Impact Factor: 0.17). 04/2014; 11(1).
14. "Characterization of the Optically Stimulated Luminescence nanoDot for CT Dosimetry", Life Sciences Journal, Feb, 2014
15. "Economic Home-based ECG monitor", King Abdulaziz University Journal-Engineering Sciences, Volume 25, issue 1, 2014
16. Book Chapter " Nano-imaging: A Nano-technology Perspective of Receptor-Ligand Interaction ", Nanoimaging(Vol.12), Nanotechnology series, stadium press LLC, 2013
17. "Towards localization of Technology: Controlling speed of treadmill using heart rate", Middle East conference on Biomedical Engineering, Texas A&M University, Doha, Qatar, Feb 2014
18. " Effect of Electrospinning Parameters on Nanofiber Diameter Made of Poly (vinyl alcohol) as Determined by Atomic Force Microscopy", Middle East conference on Biomedical Engineering, Doha, Qatar, Feb 2014
19. " Characterization of the Optically Stimulated Luminescence nanoDot for CT Dosimetry", 04/2013; In proceeding of: 2013 International Conference on Medical Physics, At England
20. "Novel Time-Frequency features for Normal ECG", International Journal for Dental and Medical Research, Vol 5, no 3, December 10, 2012
21. "Entrepreneurship and Unemployment in The Kingdom of Saudi Arabia", 1st Saudi Economy Conference: Challenges and Opportunities, King Abdulaziz University, May 2012.
22. "Graduate Studies in USA, Guide for applying and studying at graduate US schools", booklet, published by the Saudi Arabian Cultural Mission, Washington, DC, 2011.
23. " A Novel Graduate Program in Biomedical Engineering at King Abdulaziz University to Meet the Local Needs ", Middle East Conference on Biomedical Engineering, American University of Sharjah, UAE, 2011.
24. "Classification of Visemes Using Visual Cues", 52 Elmar Conference, Zadar, Croatia, 2010.

Professional Training

- "Medical Devices Regulations", 23 hrs training by the Pharmaceutical and Medical Devices Agency, PMDA Japan. The training was conducted by PMDA in Tokyo during 9-13th July 2018.
- "Leading Change", 54 hours training with a comprehensive program by Center of Creative Leadership, and the Institute of Public Administration, 2017
- Lead Auditor Training ISO9001, 40 hours training, Saudi Arabian Standard Organization, Oct 2016
- Biomedical Auditor Training, 20 hours, by American Association of Quality, Feb 2016
- Public Private Partnerships workshop- GE medical Systems
- "Hospital Design Workshop", 16 Hours delivered by Gateway Medical Services.
- "The Power of Words and Thinking", 15 hour training with Dr Ahmed Omarah, consultant on Energy and Psychologist.
- "Incorporating Innovation into institutions", 25 hours training by prof Robert Ebstien an expert and an author of multiple books on innovative thinking.
- Multiple trainings for 60 hours on Entrepreneurship concepts and marketing of Technology by Badir, King Abdulaziz City for Science and Technology.
- "TRIZ innovative strategies", 20 hours training at the Center of Higher Education Development in King Abdulaziz University.
- "CORT thinking strategies", 20 hours training at the Center of Higher Education Development in King Abdulaziz University.
- "The Total Leader", 80 hours training by Jeddah branch of US based Leadership management institute.
- Project Management, 35 Hours training by Imakanat, Jeddah, SA.
- Creating Programs/Curriculums for gifted students, (3 trainings, 25 hours each) by King Abdullah and his Men foundation for creativity and giftedness.
- CT Scan Essentials, 18 hours certified CME hours by Medical Professionals.
- MRI Essentials, 35 hours certified CME hours by Medical Professionals.

- Summer Programs for Talented students, (4 weeks) at Center for Talented Youth, John Hopkins University, USA.
- LABVIEW Intensive Training (10 Days-80 hours), by National Instruments.
- Project Management and Leadership Training, (16 hours) by IEEE-Region 8 Training center.
- Judging Scientific Projects, (10 hours), by Center for Talented students at Ministry of Education.
- Laser Imagers and processors Trainings, (3 trainings, 22 hours each), 3M Systems, UK.
- Ultrasound Machines Training, (20 hours), GE Medical Systems, Saudi Arabia
- Time Frequency intensive, (35 hours) by Prof. William Cohen, University of Michigan Ann Arbor.
- Multiple trainings on (Communication skills, leadership, innovation, computer programming, web applications, computer networks)

Training Programs Conducted and Extra Activities:

- Social:
 - Founding and Board Member "Rofaida Women Health Society", specialized NGO registered at Ministry of Social affairs,
 - Launched a Blog (Be the Change you would like to see in the world) to publish my articles on leadership, thinking strategies and innovation <http://alothmany.me>
 - Founding member for Generations for Generation volunteer group and delivered 7 programs for scholarship students to prepare them for the journey, each program lasted 7 hours.
 - Writer in Almobtath Magazine published by the Saudi Cultural Mission in Washington, DC
 - Speaker at Saudi Arabia Cultural Mission 2013 Graduation Ceremony at Washington DC "Returning Home with hopes"
 - Training teaching assistants at King Abdulaziz University on studying in USA (twice per year) on "Graduate studies in USA" during the forum for scholarship students at King Abdulaziz University 2011, 2012, 2013,2014,2015,2016,2017
 - Delivered "First 100 days in scholarship" in King Saud University division for Teaching Assistant support in 2012,2014,2015,2016,2017
 - "Effective Communication and Leadership Training" at Children and Maternity Hospital, and
 - "The Seven Habits of Highly Effective People from the life of the prophet" presented at 4 different Saudi student organizations around USA (Colorado, Nebraska, Pennsylvania, West Virginia)
 - Dozens of presentations on Islam, Saudi Arabia, and Middle east at different civic organizations, newspapers, educational institutions around USA.
 - "Organizing Large Scale Events Training" conducted 6 times around USA (Saudi Cultural Mission Student Meetings in Washington DC, and Melbourne, FL, Colorado First Conference on Saudi, Nebraska Saudi US Culture Conference, University of North Carolina, University of Pittsburgh-PA)
- Scientific
 - Judge and Scientific Committee member in National research and innovation completion for Saudi Public schools by Mawhiba and Ministry of Education 2017, 2018
 - Judge in Intel Science and Engineering ISEF 2015 competition that was held in Pittsburgh, USA.
 - Reviewer within the PACHE (Pan American Health Exchange) society that organizes conferences and exhibits in the American Continent
 - Reviewer 8th IEEE GCC conference on Engineering in Medicine and Biology Conference, Feb 2014, American University of Sharja.
 - Chairman for Engineering and Science Track during the 5th Ministry of Higher Education Conference for higher education students 2012 (more than 3000 submitted papers)
 - Judge in 2012 KAU president innovation award competition
 - Reviewing scientific papers for KAU Engineering Magazine and Effat University's Science and Technology Conference (2010 and 2011).
 - 3 Presentation during "Technology in Education" 2010 Effat University (Social Media in Education)
 - "Electrical Safety in Hospitals Presentation" during the Saudi FDA medical devices conference in April 2010,
- Leadership Development
 - Delivered several trainings as a certified training by Leadership Management International Inc (LMI-Texas, Jeddah) to Project planning presidency employees at King Abdulaziz University. (Personal Productivity, Personal leadership, and Strategic leadership)
- Giftedness
 - Scientific Committee for Mawhiba (King Abdulaziz Foundation for Giftedness and Innovation) judging

- students projects for the National Competition for Research and Innovation (Ibda) 2017.
- Training gifted students from Mawhiba (King Abdulaziz Foundation for Giftedness and Innovation) participating in Intel ISEF 2015 Science and Engineering competition. The team won 7 grand prizes and 1 special prize.
- "Align your compass Training" for teachers in the summer program for primary level gifted students at Riyadh schools, Dar Alfikr school-Jeddah and Dar Ahassan Schools in Dammam.
- Training Gifted students representing Saudi Arabia in Research and innovation in Intel ISEF 2015 with King Abdulaziz foundation for giftedness
- Conducting a program on “Medical Electronics and Biomedical Engineering” for gifted female students at intermediate level at the center for talented students for the ministry of education, Jeddah.
- Developing a Curriculum on Science for 3rd and 6th grade gifted students during King Abdulaziz and his companions for Creativity and Giftedness foundation 2011 summer programs.
- Developing a Curriculum on Energy for 3rd and 6th grade gifted students during King Abdulaziz and his companions for Creativity and Giftedness foundation 2011 summer programs.
- Conducting "Teaching Gifted Students Training" for teachers in Mawhiba programs in Jeddah, Riyadh and Dammam.
- Judging student projects in several national competitions (Ibtikar 2010, National Science Fair competition, Western province Lego robots competition 2010)

Awards:

- 2013 Jeddah Chamber of Commerce Award for Medical Devices and Accessories Committee members.
- 2012 College of Engineering award for excellence in leading the Saudi Scientific Society for Biomedical Engineering
- Saudi Cultural Mission in USA 2009 Award for Excellence in Cultural Activities.
- Saudi Airlines Award for research Excellence -2009.
- University of Pittsburgh 2008 International Student of the year award by Student Affair.
- Society of Muslim Health Physicians in Greater Pittsburgh Award for Extreme Volunteerism-2005
- Islamic Council of Pittsburgh Award for Volunteerism -2004
- More than 50 Certificates of Appreciation from several civic societies around USA.
- More than 25 Academic achievement awards during the course of studying in schools and Universities.

Achievements as Chairman of Biomedical Society:

- Organizing Trainings for field engineers, conducting meetings, managing the website, and coordinating volunteers working in the society.
- Speaking at multiple local and international conferences on issues related to Medical devices management, technologies, and safety.
- Chaired organizing 30 trainings/programs during the period (Jan 2011 – Nov 2013) on several topics related to Biomedical Engineering.
- Chairman of 2012 Saudi Biomedical Summit held in Jeddah Chamber of Commerce
- Joined committees to coordinate 5 full day forums on biomedical engineering in Jeddah, Riyadh, and Dubai UAE.
- Scientific Committee Member for the Annual Saudi Biomedical Conference held during the Saudi Health (2013, 2014, 2015)
- Coordinated with several companies the training for 20 Biomedical engineering students around the world (China, England, Dubai, Italy, Germany)
- Member in Campaign for Quality Assurance of Diagnostic X-Ray systems conducted by the society.

Studies and Projects at Ministry of Health (MOH)

- Cost Analysis for MOH projected expenditure on Medical Devices doe the years 2013-2020
- National Health Care Investment Plan
- National Project for Manufacturing Medical Devices (In Conjunction with Saudi Arabia General Investment Authority (SAGIA), National Industrial Clusters Development Program (NICDP), Public Investment Funds (PIF), Ministry of Economy and Planning (MoEP), Saudi Food and Drugs Authority (SFDA).
- Representing MOH at the (Invest in Saudi Forum) in Tokyo, Japan, 2013 with SAGIA

- Private Public Partnerships (PPPs).
- Medical Waste Management.
- Supply Chain for Medical Devices and Supplies.
- Hospital Cost Centers Analysis.
- Establishing a Center of Excellence on Biomedical Engineering.

Achievements at Saudi Food and Drugs Authority (SFDA)

- Managing 240 employees with an annual operation budget of 150 Million Saudi Riyals. Responsibilities were regulative, legislative, and executive to assure the safety and efficacy of Medical devices and equipment in Saudi Arabia.
- Speaking at multiple local and international conferences on issues related to Medical devices management, technologies, and safety.
- Activities within Medical devices sector included (developing regulations, conducting inspections on establishments, manufacturers, conducting risk management on devices, managing adverse events, recalls on Medical devices, controlling port of entries, research, awareness, and radiation safety activities around the kingdom.
- Main Achievements of the Sector:
 - The Saudi Market size for 2017 was 15 Billion Saudi Riyals, with more than 4000 international manufacturers registered, 1100 importers and distributors, 83 local manufacturers, 110,000 Medical device with market authorization, and 470 hospitals.
 - Submitting the first Draft for Medical Devices and IVD Law for approval by Saudi Authorities.
 - Developed the road map for direct approval of Medical Devices and IVDs through SFDA without the need to register the product in one of the reference countries.
 - Establishing a Collaboration Center for Medical Device Regulations with the World Health Organization WHO and Saudi FDA
 - Chair Scientific Committee for the 3rd Food, Drugs and Medical Devices Arab Conference that was held in collaboration with the Arab Development Administrative League (League of Arab States), Egyptian Ministry of Health, and the Gulf Health Council. The conference had speakers from 17 Arab states and 12 International Countries and it was held in the city of Sharm Elshiekh, Egypt during 15-17 April, 2018
 - Chair of "World Health Organization Inter-Country Meeting on Designing and Implementing Regulatory Program for Medical Devices" that included delegations from 17 eastern Mediterranean countries and was held in Riyadh during the time 11-14 April, 2016
 - Scientific Program for Medical Devices Track for 1st Saudi Food and Drugs Authority Conference. The conference was held in Riyadh, Saudi Arabia during the time 17-19 October, 2017
 - Represented SFDA in multiple International Conferences and meetings with other regulatory bodies such as (PMDA Japan, HAS Singapore, MDS Malaysia, Health Canada, MHRA UK, WHO-Medical Devices, WHO-EMRO, CFDA China, Asian Harmonization Working Party (AHWP), MFDS South Korea, CDSCO, India, and InfraMed Portugal.
 - Represented SFDA in collaboration with (Notifies Bodies such as BSI, UL, TUV, and Cosmos). As well as organizations like GS1, GMDN, ECRI)
 - Coordinating Collaboration with other local Ministries and Organizations such as (Ministry of Health, National Guard Health Affairs, Military Hospitals, Saudi Health Council, Central Board for Accrediting Health Institutes, Saudi Council for Health Specialties, Ministry of Trade, Ministry of Industry, and National Unified Procurement Company for Medical Supplies.
 - Coordinating Collaboration with Medical Devices Associations in Middle East and Europe, Saudi Chamber of Commerce Medical Devices and equipment committees and Scientific Societies related to Medical Devices.
 - Represented SFDA in multiple meetings, conferences with other local ministries and organizations to coordinate the implementation of SFDA regulations in Food, Drugs, Medical Devices, Cosmetics, Pesticides, and Feeds.
 - National Campaign for inspecting Radiology departments and cosmetic clinics across the kingdom to ensure the adoption of good quality management systems and radiation safety standards.
 - Chairing the Medical Devices standards committee that had 10 member committees with the international standards organization (ISO) and managed to develop more than 200 standards for Medical Devices.
 - Chaired a team of expert to develop (Guidance for Best Practices in Managing Medical Devices within Healthcare Facilities)