



AYMAN ALKAYAL

Medical Engineering, Ph.D.



PROFILE

I hold a PhD degree in medical engineering, with advanced experience in medical equipment operation, maintenance, and repairing which utilized in a professional medical engineering training courses and workshops



CONTACT

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WORK EXPERIENCE

MANAGING

2013 - now

Manager at ALKAYAL FOR MEDICAL ENGINEERING SOLUTIONS company that takes a charge of:

1. Import Hi-tech medical and scientific equipment.
2. Providing technical support for medical equipment.
3. Providing engineering consulting for hospital and health care centres.

UNIVERSITY LECTURING

2012 - now

Teaching various courses in medical engineering and dentistry collages:

1. Medical physics, (ALSHAM private university)
2. Biomechanics, (Damascus university)
3. Medical equipment maintenance, (Damascus university)
4. Biomedical electronics (Technical institute for Mechanical and Electrical Engineering).
5. Radiology System maintenance (ministry of education).

MEDICAL ENGINEERING TRAINING

2010 – now

- Organizing many professional training courses, lectures, and one-day workshops in medical and medical engineering field for engineers, technicians, and medical staff.
- All courses and workshops include hand-on training on real medical equipment.
- Main headlines of training courses:
 1. Medical equipment components.
 2. User and service manual understanding.
 3. Optimum operation.
 4. Routine maintenance.
 5. Repairing and problem solving.
- Sample of our training activities:
 1. Medical laser machines operation and maintenance (Higher institute for laser researches and applications).
 2. ECG machine maintenance (Specialized sciences Centre).
 3. Infant incubator maintenance (Specialized sciences Centre).
 4. Autoclaves maintenance (Specialized sciences Centre).
 5. Autoclaves maintenance (ANDALUS Private University).
 6. Dental Units maintenance (ANDALUS Private University).
 7. Biomedical engineering career (Business Clinics)



EDUCATION

Medical engineering, Ph.D. Damascus University, Syria.	2014 - 2018
Medical engineering, M.Sc. Damascus University, Syria	2008 - 2013
Medical engineering, B.Sc. Damascus University, Syria.	2003 - 2007



PUBLICATION

REFEREED JOURNAL

1. AlKayal A, AlHinawi M.F, Abu aissa N, (2013), "Ultraviolet usage efficiency in supporting particulate filters to disinfect re-circulated air in both ICU and O.R rooms", Damascus university Journal for engineering science, a refereed journal.
2. Alkayal A, Marmar Z, ReKab M.S, (0218), "Photoplethysmography based Pulpal blood flow Measurement using pulp vitality assessment system", Damascus University Journal for health science, refereed journal.
3. Alkayal A, Marmar Z, ReKab M.S, (0218), "Pulpitis level evaluation based on Pulpal Blood Flow estimated by PhotoPlethysmography", Damascus University Journal for health science, refereed journal.

BOOKS

4. AlKayal A, Ramadan S, Salhab A, AlNashef S, (2014), "Medical equipment maintenance Guideline", Vol.1, Dar AlWathaeq, P.198, Damascus, Syria.
5. AlKayal A, (2012), "Artificial organs, principle, engineering proprieties and historical development", Dar AlNahdah, P.192, Damascus, Syria.

ARTICLES:

6. AlKayal A, (2012), "Medical Applications of Ultraviolet radiation", Arabic encyclopedia, Syria.
7. AlKayal A, (2011), "C-arm x-ray unit", Arabic encyclopedia, Syria.

TRANSLATIONS:

8. "EASE Guideline for Authors and Translators of Scientific Articles to be published in English", (2011), European Association of Science Editors, Translation into Arabic, yearly updated until now.



LANGUAGE

Arabic: Native language.
English: good in reading, writing and conversation



SKILLS

- ICDL certified.
- Engineering software (Eagle, Labview, AVR, AutoCAD).
- Professional training.
- Scientific authoring.
- Medical equipment services.
- Medical facilities management.