# **Curriculum Vitae (CV)**

## • Personal Information:

- Name: Ayman Alkayal

- E-mail: Aymankyl@gmail.com / Ak8@au.edu.sy

- Mobile: 0934828484

- Languages: Arabic – English



### • Education and Academic Background:

2014 – 2019, Medical engineering, Ph.D., Damascus University

- 2008 – 2013, Medical engineering, M.Sc., Damascus University

2003 – 2007, Medical engineering, B.Sc., Damascus University



Vice dean for scientific affairs, medical engineering faculty, Al-Andalus private university

· Head of medical equipment department, medical engineering faculty, Al-Andalus private university

• Teacher at medical engineering faculty, Al-Andalus private university

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### • Publications and Scientific Work:

## :Papers REFEREED

- Darwich, A., Ismaiel, E., Al-kayal, A., Ali, M., Masri, M., & Nazha, H. M. (2023). "Recognizing Different Foot Deformities Using FSR Sensors by Static Classification of Neural Networks". Baghdad Science Journal, 20 (6 (Suppl.)), 2638-2638.
- Alkayal A, Hamadah, O, (2023), "Observing the Malfunctions of the Dental Units in Faculty of dentistry, and Analysing the Factors Affecting Them", Damascus University Journal for health science.
- Alkayal A, Marmar Z, Rekab M.S, (2018), "Pulpitis level evaluation based on Pulpal Blood Flow estimated by Photoplethesmography", Damascus University Journal for health science.
- Alkayal A, Marmar Z, Rekab M.S, (2018), "Photoplethesmography based Pulpal blood flow Measurement using pulp vitality assessment system", Damascus University Journal for health science.
- 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.

### :BOOKS

- AlKayal A, (2022), "Medical equipment maintenance Guideline", Vol.2, Dar AlWathaeq, P.180, Damascus, Syria.
- AlKayal A, Ramadan S, Salhab A, AlNashef S, (2014), "Medical equipment maintenance Guideline", Vol.1, Dar AlWathaeq, P.198, Damascus, Syria.



- AlKayal A, (2012), "Artificial organs, principle, engineering proprieties and historical development", Dar AlNahdah, P.192, Damascus, Syria.

# :ARTICLES

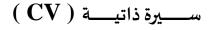
- AlKayal A, (2012), "Medical Applications of Ultraviolet radiation", Arabic encyclopedia, Syria.
- AlKayal A, (2011), "C-arm x-ray unit", Arabic encyclopedia, Syria.

# :TRANSLATIONS

"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.

# • Vision:

Developing medical engineering science and technologies in Syria.





# • المعلومات الشخصية:

- البريد الالكتروني:

Aymankyl@gmail.com/Ak8@au.edu.sy

- الهاتف المحمول: 0934828484

- اللغات: عربي - انكليزي

# • المؤهلات والشهادات العلمية:

- دكتوراه في الهندسة الطبية – جامعة دمشق – 2019

ماجستير في الهندسة الطبية – جامعة دمشق – 2013

- إجازة في الهندسة الطبية – جامعة دمشق – 2007

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# • الدرجات العلمية والمهام الادراية:

- نائب العميد للشؤون العلمية في كلية الهندسة الطبية جامعة الاندلس الخاصة
- رئيس قسم التجهيزات الطبية في كلية الهندسة الطبية جامعة الاندلس الخاصة
  - مدرس في كلية الهندسة الطبية جامعة الاندلس الخاصة

# • النّشر والأعمال العلميّة:

#### :REFEREED Papers

- Darwich, A., Ismaiel, E., Al-kayal, A., Ali, M., Masri, M., & Nazha, H. M. (2023). "Recognizing Different Foot Deformities Using FSR Sensors by Static Classification of Neural Networks". Baghdad Science Journal, 20 (6 (Suppl.)), 2638-2638.
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- Alkayal A, Marmar Z, Rekab M.S, (2018), "Pulpitis level evaluation based on Pulpal Blood Flow estimated by Photoplethesmography", Damascus University Journal for health science.
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- 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.

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## :BOOKS

- AlKayal A, (2022), "Medical equipment maintenance Guideline", Vol.2, Dar AlWathaeq, P.180, Damascus, Syria.
- AlKayal A, Ramadan S, Salhab A, AlNashef S, (2014), "Medical equipment maintenance Guideline", Vol.1, Dar AlWathaeq, P.198, Damascus, Syria.
- AlKayal A, (2012), "Artificial organs, principle, engineering proprieties and historical development", Dar AlNahdah, P.192, Damascus, Syria.

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#### :ARTICLES

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

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#### :TRANSLATIONS

- "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.

• <u>الرّؤبــة:</u>

تطوير علوم وتقنيات الهندسة الطبية في سوريا بشكل يواكب التطورات العالمية.