

FIDAA MOHAMMAD JAAFRA

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C.V for FIDAA JAAFRA

PROFESSIONAL INTEREST

Interesting in the Hemodialysis Machine and Building System Dynamics Model in Biomedical Engineering Field ,the Biogenetic rays, Prosthetics and myoelectric hand design and implementations, all the update in x-ray machines, all the non-invasive technique in biomedical device such as measure blood hemoglobin concentration without blood sample , translate biomedical book from English to Arabic , silver in medical applications and dental measure force. Follow all the new in biomedical engineering .

PROFESSIONAL EXPERIENCE

Sep 2005 - Present

Biomedical Engineering Lab Supervisor. Palestine Polytechnic University, Hebron, Palestine

I joined the Palestine Polytechnic University for the biomedical engineering laboratory supervisor, in this lab I'm teaching the following labs:

- 1- *Bioinstrumentation lab (1) and (2)*
- 2- *Modeling and medical signal processing*
- 3- *Medical electronic Lab*
- 4- *Measurement & Sensor Lab*
- 5- *Applied electrical circuit lab*
- 6- *Electronic Lab*

Sep 201 - Present
courses :

Now after I complete the master degree in biomedical engineering I'm teaching the following

- 1- *Human Anatomy and Physiology*
- 2- *Bioinstrumentation (1).*
- 3- *Special topics in biomedical*
- 4- *Medical diagnostic and imaging system*

Sep 2004 - Aug 2005

Trained Volunteer. Palestine Ministry Health

Received training in the Maintenance Unit of Biomedical Engineering of the Ministry of health . In this period I have a lot of practical experiences and knowledge the principles of medical devices and how to maintenance it.

Jul 2004 - Aug 2005 **Research Assistant** . Palestine Polytechnic University , Hebron, Palestine

From the date of 07.18.2004 worked as an assistant research with Dr.Daoud Zaatari / Chairman of Palestine Polytechnic University previously in the subject of **cancer in the West Bank , where research** includes several topics : 1- Statistical work by cancer across the West Bank through Bet Gala Hospital. 2- Develop hypothesis to explain why the spread of breast cancer in the West Bank , and take samples of milk, breastfeeding mothers and check the PH of the samples in an attempt to link the acidic milk and emergence of cancer cells within the breast . 3- Take the Mammography image of the breast and used **Matlab software** to analysis the image to detect breast cancer in early stage.

EDUCATIONAL BACKGROUND

Oct 2010 - Oct 2012 Cairo University, **Master, MS.c in Systems and Biomedical Engineering**
Graduated from **Cairo University** with GPA 3.6 , my thesis under title (**System Dynamics Modeling of Dialysate Conductivity during Dialysis Session**)

Sep 1999 - Jun 2004 Palestine Polytechnic University, **Bachelor, BE in Biomedical Engineering**
GPA :3.18, Major GPA: 3.5 , my project under title " **Laser Diode Pulse Detector for Blood Pressure Monitoring** "

Sep 1998 - Aug 1999 Tarqumia Secondary Girl, **High School, H.S. Scientific branch.**

SKILLS

Computer Skills - 1- Microsoft Word , Excel , Power Point. 2- Matlab Program 3- Vensim software program 4- Crocodile Technology software program .
5- Multisim software program . 6- Curve Unscan program. 7- Digitize graphs and plots. 8-Internet

Conferences :-

1-Technology Dialysis , Jordan Engineers Association, Between Jordan & Palestine , 2009.

Held today the first scientific entitled (IT Dialysis) on 24/10/2009 , through the video conference , where

I participated scientific paper under title (**Dialyzer Membrane Technology**).

2-The 5th students Innovation Conferences, 2015, Palestine. Project " *Designing force probe to monitor and treat teeth grinding, 2015*".

3-The 17th Creative Student Forum Conferences, 2015, Sultanate of Oman. Project " *Designing force probe to monitor and treat teeth grinding, 2015*".

4-The 7th students Innovation Conferences, 2018, Palestine. Project "*Design and implementation of a prosthetics hand, 2018*".

Languages - Arabic : Mother Tongue , English : Very good.

Projects Supervision : -

- 5- *A real time ionic dialysance monitoring by using conductivity cell, 2014.*
- 6- *Designing force probe to monitor and treat teeth grinding, 2015.*
- 7- *Hematocite and vascular access blood flow monitoring, 2015.*
- 8- *Design and implementation of hearing aid with photovoltaic charger, 2017.*
- 9- *Design and implementation of a prosthetics hand, 2018.*

Qualification Highlights: –

Arabic language authoring and translation of books in the field of medical devices. I was able to participate through a simple authored a number of books as follow : -

- 1- Participation in writing a book , a Q & A in the kidneys of engineer Ahmad Borini , in the part of the dialyzer membrane used in the manufacture of dialysis machines , their characteristics , types and advantages.
- 2- Translation of a book entitled (Biomedical Nanotechnology) , with engineer Ahmad al-Hamwi .
- 3- Analysis how Caveman sleep 309 years, by analysis all the conditions in the cave.

CERTIFICATES

2009

Training in Jordan

* **Hemodialysis Machine** - Dental Chair Unit - CT-Scan - Anesthesia & Ventilator Machine - ESU -

Endoscopy device - Medical Electronics, Iradah for Leadership Training , Amman- Jordan . These

training included the work session on the principles of medical equipment and first lines of the principles of maintenance and how to remove each piece in the device .

* Excimer Laser , Plasmaaphersis machine , Cobalt device ,Iradah for Leadership Training , Amman- Jordan . These

training included the work session on the principles of medical equipment and first lines of the

principles of maintenance and how to remove each piece in the device .

* Hospital Administration & Planning , Palestine Polytechnic University , 2010 .

* Medical Equipment Management Cycle, Palestine Polytechnic University , 2010.

* Diploma in NLP , NASSAEM ALEBDAA ACADEMY, Amman - Jordan, 2010.

Fellowship

Training Grant :

May - June - 2014 :- Training in Jordan for the following devices:

- 1- Excimer Laser device 2- Phaco surgery device and other ophthalmic devices
3- CT-Scan advanced course 4- MRI machine.

July - August - 2017 :- Training in Jordan

Orthotics & Prosthetics Design and Implementation.

TRAINING REFERENCES

Dr. Sameer Hanna
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