

RESUME

Abram William Makram, B.Sc.

Current Appointments:

Teaching Assistant, Department of Biomedical Engineering, Faculty of Engineering,
Helwan University, Egypt.

Contact information

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Research interests:

Signal and Image Processing (Medical Imaging).

Education

On Going Study:

Masters of Science in Biomedical Engineering at Helwan University.

Title: "Estimation of Left Ventricular Global Function from Tagged
Magnetic Resonance Images"

Wider objective: Using cMRI and tMRI for evaluating the local and global functions of the heart is inconvenient to the patient due to the requirement of multiple breaths holds for 12-15 seconds each slice. This represents difficulty to heart failure patients. Therefore; it is beneficial for these patients to estimate the global function from the tMRI to save breath holds, scanning time and cost

Bachelor of Science

B.Sc., 2011: Helwan university, Biomedical Engineering Department, Faculty of Engineering.

Final Grade: **Excellent** (88.33% -- ranked Second)

Graduation Project: LLLT Device (Low Level Laser Therapy Device)

Description: Using low level laser to treat dermatology diseases, wound healing, pain relief and acupuncture. Implemented system contains several engineering aspects (electronics, programming and interfacing).

Project Grade: Excellent .

Award: Nahdet El Mahrousa 2011 "Young Innovators' Award program".

Work Experience

Career Experience

September 2012 onwards: Teaching Assistant
Teaching assisting in the delivery of academic education courses for undergraduates, the courses include:

- Programming using Object Oriented C++ language.
- Programming using mat lab.
- Analog Electronics
- Digital Electronics
- Medical Imaging Equipment (X-Ray, US, MRI).
- Nuclear Medicine Equipment (Gamma Camera, SPECT, PET).

Member (Instructor), BME CLUB, Biomedical Engineering Department, Faculty of Engineering, Helwan University.

Helping students to understand some Engineering topics

- Microcontrollers
- Electronic measurements and instrumentation.
- Biomedical Devices as ECG, EMG, B-mode ultrasound, Doppler Ultrasound, Audiometer,.... etc.

January 2012 to September 2012: Biomedical Engineer at Maṣr el-Gedīdah Military Hospital

Publications

1. **Abram W. Makram**, Ayman M Khalifa, Hossam El-Rewaidy, Ahmed S Fahmy, El-Sayed Ibrahim," Evaluation of ventricular global function from tagged CMR images " ,*Journal of Cardiovascular Magnetic Resonance* 2015, **17**(Suppl 1):Q30 (3 February 2015).
2. **Abram W. Makram**, Ayman M. Khalifa, Mohamed El-Wakad, Hossam El-Rewaidy, Ahmed S. Fahmy, El-Sayed H. Ibrahim," Evaluation of cardiac left ventricular mass from Tagged Magnetic Resonance Imaging ", Biomedical Engineering Conference (CIBEC), 2014 Cairo International, 67-70.

Training and Courses

Certificated Training

September 2009 : Al-Safa Hospital
August 2009 : El-Gomhoria Company
July 2009 : National Cancer Institute Egypt
July 2008 : Training at Elentag Elharby hospital

Certificated Courses

Oct 2009 Microcontroller and Electronics B.S.T.C(Bahgat Company)

Academic courses

- Mat lab (Programming and GUI)
- Programing with C++
- Neural Networks
- Digital Image Processing
- Artificial Intelligence
- Medical Equipment

Projects

- Temperature sensor Monitor.
- Digital Blood Pressure Monitor.
- Low Level Laser Therapy Device.
- Ultrasound Simulation (using Field II package – Mat lab).
- Automatic Detection of ECG abnormality (Matlab – Neural Network).
- Automatic Diagnoses for Ear, Nose and Throat diseases (based on database using prolog – Expert systems).

Skills

Computer Skills

- Microsoft office and Internet
- Programming language C, C++, Visual Basic, and Matlab.
- Electronics **programs** (as Proteus Simulation program, PCB layout and Design)

Language

- Arabic Native language.
- English very Good.

Soft Skills

- Ability to work in a group or individually according to the job requirements.
- Fast-learner.
- Dependable & hard worker.
- Time management & handle deadlines.
- Presentation & Communication.

Personal information

Date of birth	October 12th ,1989
Marital Status	Single
Military Status	Done
Nationality	Egyptian

References Available upon request.