CURRICULUM VITAE

Wael A. Mohamed, PhD

Benha University
Benha Faculty of Engineering

Electrical Department

Contact Information »

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Personal Information▼

Name:	Wael Abdel-Rahman Mohamed Ahmed
Nationality:	Egyptian
Resident of:	Benha
Birth date:	10 July 1976
Gender:	Male
Marital status:	Married (3-Children)

Education▼

College:	Benha Faculty of Engineering
University:	Benha University
Address:	Benha, Qalubia, Egypt
Degree:	**Bachelor of Science (B.Sc.)** **June. 1999**

Department of: *Electrical Engineering Technology*
Grade: **Excellent with Honor Degree**

Postgraduate degrees:

1) **Master of science (M.Sc.)**   **Jan. 2006**
Location: **Benha University – Benha Faculty of Engineering**
Department of: *Electrical Engineering Technology* (**Biomedical Branch**)

2) **Philosophy of Doctor (Ph.D.)**   **Dec. 2009**
Location: **Cairo University – Faculty of Engineering**
Department of: *Systems & Biomedical Engineering*

Academic Experiences▼

Institution: Benha Faculty of Engineering (Previously: Benha High Institute of Technology)

Summer training in the faculty shops:

(Turning, milling, arc welding, metal casting, Wood working, Forging, Sheet metal working, computer skills……)   July 1995 -Aug. 1995

Summer training in Egypt Air   July 1996

Summer training in Shubra power station   July 1998

Fifth year project: (Universal battery charger based on 80196 microcontroller)

Project Grade: Excellent

Awards▼

2008   The award of the best research of PhD student on the Egyptian Universities. Presented by Supreme Council of Universities (**SCU**) and Association of the Egyptian-American Scholars (**AEAS**).

1999   The award of being the first on my faculty colleges (Graduation Ceremony).

Job Definition ▼

Works at Benha Faculty of Engineering – Benha University as:

Demonstrator: **3/2001 to 8/2006**
Assistant lecturer: **8/2006 to 3/2010**
Assistant Professor: **3/2010 till now**

Affiliation ▼

Assistant Professor, Electrical Department, Benha Faculty of Engineering, Benha University.

Master of Science (M.Sc.) ▼

Title: *A Virtual Ultrasound Imaging System for Studying Transducer and Pulse Parameters Effects on Image Quality*   Jan. 2006

Department: Electrical Engineering, Benha Faculty of Engineering, Benha University.

Supervisors: **Prof. Dr. Abdalla Sayed Ahmed**
                (Systems & Biomedical Engineering Department, Cairo University)
                Dr. Ahmed A. Morsy
                (Systems & Biomedical Engineering Department, Cairo University)
                Dr. Gamal M. Sarhan
                (Electrical Engineering, Benha Faculty of Engineering-Benha University)

Papers: <u>Wael Abdel-Rahman,</u> and Ahmed A. Morsy, "*A Virtual Ultrasound Imaging System for Studying Transducer and Pulse Parameters Effects on Image Quality*", Proc. 2nd Cairo International Biomedical Engineering Conf. (CIBEC'04), Cairo, Egypt, 2004.

Philosophy of Doctor (Ph.D.) ▼

Title: *Computer Aided Diagnosis of Digital Mammograms*   Dec. 2009

Department: Systems & Biomedical Engineering Department, Faculty of Engineering, Cairo University.

Supervisors: **Prof. Dr. Yasser M. Kadah**
                (Systems & Biomedical Engineering Department, Cairo University)
                Dr. Mohamed I. Owis
                (Systems & Biomedical Engineering Department, Cairo University)

Papers:
- M. A. Alolfe, F. M. Al-Akwa, <u>**Wael A. Mohamed,**</u> and Y. M. Kadah, "Computer Aided Diagnosis of Digital Mammography Images Using Unsupervised Clustering and Biclustering Techniques," Proc. SPIE medical imaging 2010, San Diego, California, USA, February 2010.
- Mohamed A. Alolfe, <u>**Wael A. Mohamed,**</u> Abo-Bakr M. Youssef, A. S. Mohamed, and Yasser M. Kadah, "Computer-adied diagnosis in digital mammography using combined Support Vector Machine and Linear Discriminant Analysis ," IEEE International Conference on Image Processing (ICIP09), Cairo, Egypt, November 2009.
- Mohamed A. Alolfe, <u>**Wael A. Mohamed,**</u> Ahmed S. Mohamed, Abo-Bakr M. Youssef, and Yasser M. Kadah, "Feature Selection in Computer Aided Diagnostic System for Microcalcification Detection in Digital Mammograms," Proc. 26th National Radio Science Conference (NRSC09), Cairo, Egypt, March 2009.
- <u>**Wael A. Mohamed,**</u> Mohamed A. Alolofi, Yasser M. Kadah, "Fast Fractal Modeling of Mammograms for Microcalcifications Detection," Proc. 26th National Radio Science Conference (NRSC09), Cairo, Egypt, March 2009
- <u>**Wael A. Mohamed,**</u> Mohamed A. Alolfe, and Yasser M. Kadah, "Microcalcification enhancement in digital mammograms using fractal modeling," Proc. 4th Cairo International Biomedical Engineering Conf. (CIBEC'08), Cairo, Egypt, 2008.
- <u>**Wael Abdel-Rahman,**</u> and Yasser M. Kadah, "Computer Aided Diagnosis of Digital Mammograms," Proc. of the 2007 International Conference on Computer Engineering & Systems (ICCES'07), Cairo, Egypt, November 2007.

Configurations ▼

Ambition, Curiosity, Confidence, Truth, Sociability and Dependability

Hobbies ▼

Searching the web, Reading, Running, Football, Chess.

Languages

Language	Level
Arabic	Fluent
English	Excellent

Skills

Professional in computer handling and management.

1. Operating systems [M.S. Dos & M.S. Win (Me, 9x, XP, Vista, 7)].
2. Office tools (Word, Excel, Power point, Access).
3. Web design (Dreamweaver).
4. MathCAD, Circuit Maker, OrCAD , Pspice and Electronics workbench.
5. MATLAB (M-file and Simulink).
6. Statistical Package for the Social Sciences (SPSS).

Taught Courses

Benha Faculty of Engineering:

1) Electrical Engineering and Circuits Analysis   (Undergraduate)
2) Electrical Applications   (Undergraduate)
3) Biomedical Instruments   (Undergraduate)
4) Hospital Instrumentation   (Undergraduate)
5) Clinical Equipment Management   (Undergraduate)
6) Power Electronics Circuits   (Undergraduate)
7) Computer Applied to Medicine   (Postgraduate)
8) Computer Vision Systems and Image Processing   (Postgraduate)

Higher Technological Institute – 10th of Ramadan:

1) Electrical Circuits Principles
2) Electronic Devices and Circuits
3) Digital Logic Circuits
4) DC and AC machines

Computer Courses

Course	Date	Institution
Concepts of IT	17-6-2006	ICTP – Benha University
Using computer and managing files	24-6-2006	ICTP – Benha University
Word processing	2-7-2006	ICTP – Benha University
Spreadsheets	8-7-2006	ICTP – Benha University
Presentations	1-8-2006	ICTP – Benha University
Database	15-8-2006	ICTP – Benha University
Information and communication	8-8-2006	ICTP – Benha University
Introduction to PC maintenance and protection	11-9-1006	ICTP – Benha University
Macromedia Dreamweaver	15-10-2006	Supreme Council of Universities – CUICTT
ICDL Certificate (EGY000174905)	16-7-2008	GSCC - Benha University

Note: Works as a trainer with the ICTP – Benha University since 1-10-2006 till now with more than 150 training course taught.

Other Courses

Course	Date	Institution
Effective teaching	15-6-2006	FLDP – Benha University
Methods of scientific research	20-7-2006	FLDP – Benha University
Quality standards in the teaching process	24-12-2009	FLDP – Benha University
University teacher preparation	26-5-2010	Faculty of Education – Benha University
Effective Presentation Skills	20-9-2010	FLDP – Benha University
Literature and the ethics of the profession	5-10-2010	FLDP – Benha University