

Usama Gad

Assistant Professor

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Personal Data:

Name:	Usama Abdel Fattah Abdel Tawab Gad
Date and place of Birth:	8/5/1979, Egypt
Nationality:	Egyptian
Religion:	Muslim
Marital status:	Married
No. Of Children:	Three
Military Service:	Completed

Languages:

Native language:	Arabic (Native language)
Second language:	English (Excellent degree in reading, writing and speaking)

Education:

1. Ph. D.

University:	Al-Azhar University Cairo-Egypt
Major:	Electronics and Communications
Date:	Mach-2014
Thesis:	"Image Processing using Residue Number System"

2. M. Sc.

University:	Al-Azhar University Cairo-Egypt
Major:	Electronics and Communications
Date:	April-2008
Thesis:	"Realization of digital filters using residue number system"

3. B. Sc.

University:	Al-Azhar University Cairo-Egypt
Major:	Electronics and Communications
Grade:	Excellent with honor degree
Graduation date:	May-2002
Project:	Optical Voice Link
Project grade:	Excellent

Publications:

- 1. Sara Sameeh Shokry, U. A. Gad, Gamal Mabrouk Abdel-Hamid “Virtual MIMO for Vehicular Communication Systems”** Journal of Al Azhar University Engineering Sector (JAUES), Cairo, Egypt, Vol. 17, Issue 65, pp. 1348-1361, October 2022.
- 2. M. I. Youssef, H. A. Konber, U. A. Gad, Amira A. Mohammed “Performance Enhancement of OFDM based Visible Light Communication Systems”,** WSEAS Transactions on Communications, Vol. 18, No. 5, pp. 34-38, March 2019.
- 3. M. I. Youssef, M. M. Zahra and U. A. Gad “A Proposed Image Denoising Algorithm Using Residue Number System”,** Journal of Al Azhar University Engineering Sector (JAUES), Cairo, Egypt, Vol. 9, No. 30, pp. 265-277, January 2014.
- 4. M. I. Youssef, M. M. Zahra and U. A. Gad “A Fast Wavelet-Based Edge Detector Using Residue Number System”,** Journal of Al Azhar University Engineering Sector (JAUES), Cairo, Egypt, Vol. 8, No. 28, pp. 1339-1346, July 2013.

Fields of interest:

Digital Signal Processing - Renewable Energy – Control System - Image compression - Speech Compression - Motion Estimation for video sequences - Video Coding - Image Segmentation - Blind Signal Separation - Telecommunication System Engineering – Microwave Engineering - Electric Circuits and Electronics.

Working Experiences:

From July -2014 up to now, Assistant Professor, Faculty of Engineering – Al-Azhar University

From June -2008 to July 2014, Assistant lecturer, Faculty of Engineering – Al-Azhar University

From January-2004 to June 2008, Demonstrator, Faculty of Engineering – Al-Azhar University

Teaching Activities:

I. Courses taught

- **Electronics (1)**
- **Electronics (2)**
- **Programmable Logic Control (PLC)**
- **Telecommunication**
- **Electronic Circuits**
- **Digital Signal Processing**
- **Microwave Electronics**
- **Electromagnetic Waves**
- **Digital Circuits Design**
- **Word Processing**
- **Database**
- **Computer using in accounting**

II. Activities

- **Demands and Updates of the Buildings Low Current Management**
A training course for the fresh graduated Engineers

Work responsibilities:

- **Research and Consultation**
- **Teaching courses in electronics and communications department.**
- **Supervising and teaching practical experiments.**
- **Supervising graduation projects.**
- **Supervising under graduation projects.**
- **Supervising Master and PhD theses.**

Prizes and Awards:

- **2002 The Second place on my faculty, about 88.67% with honor degree**
- **INDAC 2011 Award (First Place)**

Outside Interests:

- **Reading.**
- **Sports practicing and Football.**

Signature

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Dr. Usama Abdel Fattah