

# Curriculum Vitae

## Personal Information

**Name:** Marwa Mamdouh Emam Khalef

**Address:** sa3d zaglol, Samalout, El-Minia, Egypt.

**Birth Date:** 1, September 1989.

**E-Mail:** [marwa\\_mamdouh91@yahoo.com](mailto:marwa_mamdouh91@yahoo.com) , [marwa.khalef@mu.edu.eg](mailto:marwa.khalef@mu.edu.eg)

**Skype ID:** Marwa.mamdouh.emam

**Mobile:** (+2) 01282454836

## Career Objective

Working in a field where I can utilize and develop my information system knowledge, interpersonal skills and contribute to the organization's success as well as my own career development.

## Current Academic Position

Teaching Assistant at Faculty of Computers and Information, Minia University.

## Education:

### (Postgraduate) Preliminary PHD

**October 2017 (ongoing):** PHD degree of computer science, Faculty of Computers and Information , computer science Department, Mina University.

### (Postgraduate) Master in Computer Science

- **Year:** October 2016.
- **University:** Cairo University.
- **Faculty:** Faculty of Computers & Information.
- **Title:** Digital Image Steganography In Spatial Domain.
- **Abstract:** The work in this thesis concerns about digital image steganography in spatial domain. Two new image steganography methods have been proposed. The first proposed method is a modified image steganography method based on LSB (Least Significant Bit) technique. The embedding in this method was done without making explicit modifications to the cover image. The work has been done with the RGB color image on two layers; Blue layer and Green layer. The message is represented by six binary bits using LSBraille method (Braille method of reading and writing for blind people) instead of using the ASCII encoding format. In which, three bits of the message are hidden in a single pixel, two bits are embedded in the Blue layer, and one bit is embedded in the Green layer of the same pixel, which means every byte will be hidden in only two pixels. In the Blue layer, the message is not only embedded in the least significant bit, but also the second and the third least significant bits may also be changed. However, during each process of embedding, only one bit of the Blue layer is changed. This proposed method achieves high performance compared to other existing methods of image steganography which means the Maximum Hiding Capacity (MHC) and the stego image quality as indicated by Peak Signal to Noise Ratio (PSNR) are very high.

## Publications

1. Marwa M. Emam, Abdelmgeid A. Aly and Fatma A. Omara, "A Modified Image Steganography Method based on LSB Technique," *International Journal of Computer Applications (IJCA)*, vol. 125, no. 5, pp. 12-17, September 2015.
2. Marwa M. Emam, Abdelmgeid A. Aly and Fatma A. Omara, "An Improved Image Steganography Method Based on LSB Technique with Random Pixel Selection," *International Journal of Advanced Computer Science and Applications (IJACSA)*, vol. 7, no.3, pp. 361-366, 2016.

## (Postgraduate) Preliminary Master

- **Year:** 2012.
- **University:** Cairo University.
- **Faculty:** Faculty of Computers & Information.
- **Evaluation:** Very Good.

## (Postgraduate) Preliminary Master Courses

- Advanced Algorithms. - High Performance Computing.
- Computation Theory. - Research methods and skills.
- Cryptography. - Wireless Sensor Network.

## (Undergraduate) BSc. Of Computer Science

(JUN 2010): Bachelor Degree of Computer Science,  
Faculty of Computers and Information, Minia University,  
Accumulated Grade: Excellent with honor degree 85.31%.

## (Undergraduate) Graduation Project

**Project Name:** Food & Me web site.

**Description:** system will be client/server based, which it can be accessed through LAN or Internet using a web browser to allow multi-access for users from different places, This system aims to provide the user with an effective program to a healthy and balanced diet, help users to access many proposals and alternatives in the field of healthy nutrition, help users to make any sports according their needs, E.g. Food & me system aims to target internet users who like to seek for organization of food and access to an ideal weight. So, system should provide all services that are need for internet users to access this system to gain the aimed weight. Many services could be provided through this system such as: write information about himself so that he can get a suitable plan for losing weight, adding new foods, meals, get latest nutrition news, and interact with the site providing his suggestions and other.

**Graduation Project evaluation:** Excellent with 96%.

**Used Tools:**

- SQL Server 2008 Enterprise (T-SQL programming).
- Visual Studio 2010 Ultimate using C# language for programming and WPF for designing and building forums.

## Languages

**Arabic:** Mother tongue.

**English:** Good written and spoken language.

## Training Workshops

(2007-2008): HTML application in creating websites, Faculty of Computer Science and Information System, Minia University.

(2008-2009): C# programming language and SQL server application on bank automated systems, Egabi Learn center.

(2011): Mobile application Workshop.

## Courses

(2011) MIS Programming Diploma, (130 hours – 3 months)

Diploma Contents:

- ✓ Management Information Systems Analysis bases.
- ✓ Database Developer Skills with SQL Server 2008 Enterprise
- ✓ C# bases – and MIS programming skills.
- ✓ .NET Framework 4.0 Web Based programming skills (ASP.NET and some bases of AJAX – Using VS 2010 Ultimate).

Programming Skills in the diploma:

- ✓ SQL Server 2008 Enterprise (T-SQL programming)
- ✓ C# (Windows & Web based programming) – (using Visual Studio 2010 Ultimate)
- ✓ ASP.NET (.NET Framework 4.0).
- ✓ AJAX (bases).

## Programming skills

- ✓ Operation Systems:
  - Server 2003, Server 2008 R2.
- ✓ Language.
  - Desktop Programming Language:
    - Microsoft C#.NET 2008/2010.
    - C++.
  - Web Development & Design Language:
    - ASP.net
    - PHP
    - MySQL
    - HTML
    - JavaScript
    - JQuery
    - HTML5.
  - Database:
    - Microsoft SQL server 2012.
  - Software skills:
    - Object Oriented Programming.
    - System Analysis and Design.
    - Software Engineering.

## Soft Skills

- Problem-solving oriented.
- Interactive and fast enough to learn new technologies and sciences
- Able to work in teams, under pressure

- **Self -Motivated**
- **Ability to meet deadlines successfully while maintaining the quality work**

## **Interested In**

- **Internet Of Things.**
- **Machine Learning.**
- **Cloud Computing**
- **Computer Network.**
- **Desktop Programming.**
- **Web Programming.**
- **Open Source Technologies**
- **Teaching.**

## **References**

*Furnished upon request.*