**Islam M. Alkabbany**

Faculty of Engineering, Assiut University, Assiut

Tel: (+2)01119741122

[islam.elkabani@eng.au.edu.eg](mailto:islam.elkabani@eng.au.edu.eg)

**EDUCATION**

* **MSc. in Electrical Engineering (Computer Engineering), Assiut University 2008-2013.**

**Thesis title:** Energy Efficient Connectivity Techniques for Mobile Wireless Sensor Network.

**Supervisors:** Prof Samia A. Ali and Prof Khaled M. Shabaan.

**Accumulative rank:** Distinction (%92)

**Post-graduate Courses:** Fault Tolerant Computing, Computer Vision, Computer Architecture, Computational method**,** Non-linear Control System, Neural Network, Pattern Recognition, Graph Theory, and Image and Video Compression.

* **Bsc (Hons.) in Electrical Engineering (Computer and Control Engineering), Assiut University 2002-2007**

**Accumulative rank:** Distinction (%85.73)

**Graduation Project**: Real time system in CNC operation

**My contribution**: Design an embedded system using PIC-MCU which Take a path of the drilling head from the PC and generate the suitable signal to control the 3-axis stepper motors.

**Publications**

* Samia A. Ali, Khaled M. Shaaban, Islam M. Alkabbany : Distributed patching for mobile wireless sensor networks. J. Network and Computer Applications 35(5): 1598-1605 (2012).

**My contribution**: Design an energy efficient patching technique for backboned wireless sensor network and develop a simulation using C# for this technique.

**Employment**

* Assistant lecturer, Faculty of Engineering, Assiut University, Egypt 2013-(present)
* Teaching assistant, Faculty of Engineering, Assiut University, Egypt 2007-2013

**Research Interests**

* Wireless sensor Networks
* Machine Learning
* Embedded system
* Fault Tolerance.
* Computer Vision

**Teaching Experience**

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| * Embedded system design * Machine vision * Computers Network * Operating Systems * Computers Organization and Architecture * Process control * Electrical Measurements * Electric circuit | * Computer languages (C, C++, C#, Matlab, Fortran) * Windows programing (C#) * Microprocessor * Digital Circuit Design * Advanced Digital Circuit Design with VHDL * PLC * Android programing |

**Graduation Projects supervised**

* Design a network monitoring and management system 2013
* Design and implement computer network with advanced features 2012
* Design and Implement a controller for mass spring dumber

system using microcontroller 2011

* Design and Implement a controller for a robot arm with four degree

of freedom using microcontroller 2011

**Computer Skills**

* Programing languages : C#,C++, C, Matlab
* Operating system : Windows, Linux, Unix
* Simulation : LogicWork, Proteus, NI Electronic workbench, Matlab&Simulink, OMNeT++, Packet tracer
* Embedded System:
  + PIC-MCU programing using CCSC
  + ARDUINO IDE
  + FPGA Development using Xilinx ISE (Spartan-3E)
* Computer Network Design and implementation
* Database design and access using ADO.NET

**Certifications**

* CCNA 2011
* CCAI 2011
* ICDL 2007

**References**

* Professor Samia Abdelfatah Ali, Computer Engineering, Department of Electrical Engineering, Faculty of Engineering, Assiut University.

(samia\_fattah@yahoo.com)

* Professor Khaled Mamdouh Shaaban, Computer Engineering, Department of Electrical Engineering, Faculty of Engineering, Assiut University. (Kshaaban@hotmail.com)
* Associate Professor Alaa Abd-Elhakeem, Computer Engineering, Department of Electrical Engineering, Faculty of Engineering, Assiut University. (dr.alaa.abdel.hakim@gmail.com)