Curriculum Vitae

Name	**Mokhtar Ahmed Aly Mohamed**
Birth Date	**10/07/1980 -- dd/mm/yy**
Nationality	Egyptian
Job Title	Research & Teaching assistant , Computer Science & Engineering Dept. , faculty of electronic engineering , Menofiya University .
Marital Status	Married and have one children
Work address	Faculty of Electronic Engineering – Menof City - Menofiya
Residence address	House no. 5 - shalby st. – menof City - menofiya
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Academic Information:

Aug 2008 - now	- **PhD** candidate in computer science and engineering. Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menofiya University, EGYPT. Title of **PhD** "**Artificial Life Simulator of Automatic car driver**"
Mar 2006 - July 2008	**M.Sc.** – M.Sc. degree in computer science and engineering. Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menofiya University, EGYPT. Title: «**Mesh-Based Multicast Protocols in Ad Hoc Networks** ».
Sept. 2004 - July 2005	**I passed the Master preparation courses in the following courses** 1- Technical English Language 5- Computer Language (OOP concepts in java) 2- advanced operating systems 6- Database systems (advanced topics) 3- Data Transfer systems between Computers 7- Parallel Processing (elective course) 4- Artificial intelligence and image processing 8- Mathematics (probabilistic techniques)
May 2002	Complete the military duty in my country as a soldier in the Egyptian army.

Mar. 2004

May 2002	**B.Sc.**	B.Sc degree in Electronic Engineering (May 2002) specialization Computer Science and Engineering. The average grade of the five academic years Very Good with Honor (77.82%). Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menofiya University, EGYPT.

Attended Research:

	Complete M.Sc research in the area of multicast in ad hoc network
Thesis title	**Mesh-Based Multicast Protocols in Ad Hoc Networks**
Thesis objective	Improve the functionality of a mesh based multicast routing protocols in ad hoc networks called "dynamic core based multicast protocols (**DCMP**)
Used Tools & Platforms in M.Sc	C programming language, GlomoSim 2.0 simulator, windows 2000 advanced server, visual C++ compiler,

Research Interest:

- Computer wireless ad hoc Networks.
- Multicast protocols in ad hoc networks.
- Routing Protocols in ad hoc networks.
- Security issues in ad hoc networks.
- AI ad Multiagent systems
- Artificial Life Simulator.
- Embedded Systems (using Pic Microcontroller and MikroC compiler)
- Applying Intelligence to PIC-Based applications
- Expert Systems

Attended Courses and Seminars:

25/1/2009 – 19/2/2009	**Oracle Java Developer Program**	**Oracle University**
24/12/2008 – 4/1/2009	**Eagle program** for User Adoption services (Talent development)	**In Oracle University and KCC Corporation**
17/2/2008 – 19/2/2008	**"Conference organization" program**	**Menofiya University**
10/2/2008 – 12/2/2008	**"Credit Hours system in universities" program**	**Menofiya University**
3/2/2008 – 5/2/2008	**The program of "ethics of a university lecturer career"**	**Menofiya University**
26/8/2007 – 28/8/2007	**"Scientific Research Ethics" program**	**Menofiya University**
4/6/2006 – 6/6/2006	**"Effective communication Skills" program**	**Menofiya University**

Teaching Experience:

As a teaching assistant at the computer science & Engineering department, faculty of Electronic Engineering, Menofiya University, from March 2004 until July 2008, I participated in the Following courses:

Mar. 2004 – July 2004	**Teach the courses of:** Image processing, and Computer interfaces
Sept. 2004 – Jan. 2005	**Teach the courses of:** Computer network fundamentals, Linux network administration, and Introduction to computer systems.
Feb. 2005- July 2005	**Teach the courses of:** Unix network programming, image processing
Sept. 2005 – Jan. 2006	**Teach the courses of:** Computer network fundamentals, Linux network administration (mandrake), and Introduction to computer systems
Feb. 2006- July 2006	**Teach the courses of:** Microprocessor fundamentals, assembly language, c++ language fundamentals
Sept. 2006 – Jan. 2007	**Teach the courses of:** OOP Java fundamentals, Data Communication
Feb. 2007- July 2007	**Teach the courses of:** Algorithms and Data Structures (using C++)
Sept. 2007 – Jan. 2008	**Teach the courses of:** Linux network administration (Suse)

Feb. 2008- July 2008	**Teach the courses of:** Digital Logic Fundamentals, Computer Architecture
Sept. 2008 – Jan. 2009	**Teach the courses of:** fundamentals of embedded systems (using Pic Microcontroller and MikroC compiler) , Algorithms and Data Structures (using C++)
Feb. 2009- July 2009	**Teach the courses of:** Microprocessor fundamentals **,** c++ language fundamentals
Sept. 2009 – Jan. 2010	**Teach the courses of:** fundamentals of embedded systems (using Pic Microcontroller and MikroC compiler) , Algorithms and Data Structures (using C++)
Feb. 2010- July 2010	**Teach the courses of:** Microprocessor fundamentals **,** Operating Systems concepts
Sept. 2010 – Jan. 2011	**Teach the courses of:** fundamentals of embedded systems (using Pic Microcontroller and MikroC compiler) , Algorithms and Data Structures (using C++)
Feb. 2011- July 2011	**Teach the courses of:** Microprocessor fundamentals **,** c++ language fundamentals
Sept. 2011 – Jan. 2012	**Teach the courses of:** fundamentals of embedded systems (using Pic Microcontroller and MikroC compiler) , Algorithms and Data Structures (using C++)
Feb. 2012- July 2012	**Teach the courses of:** Microprocessor fundamentals

Software skills and Tools:

NAME	Experience level	Last used
Programming language		
C and C++ (my MS.c. Tool)	**Professional**	Currently is being Used
C# (my PhD tool)	**Professional**	Currently is being Used
MikroC for PIC – based applications (my PhD tool)	**Professional**	Currently is being Used
Assembly language (8086)	**Professional**	Currently is being Used
Java	**Professional**	More than 3 year
Network simulator		
GlomoSim 2.0 (MS.c. Tool)	**Professional**	More than 4 year
Operating systems		
Windows 7	**Professional**	Currently is being used

Linux (Suse)	**Professional**	Currently is being used

Network tools		
Windows 2000 – 2003 server	**Intermediate**	More than 6 years
Network programming under Unix paltform	**Intermediate**	More than 5 year
CCNA fundamentals	**intermediate**	More than 4 year

General application		
MS Office 2010 (word , power point)	**Professional**	Currently is being used
Latex	**Intermediate**	More than 4 years
Photoshop	**Intermediate**	More than 4 years

The terms Professional, Intermediate and Novice are used to refer the experience level in a descending level.

Publications:

2007

1	**Moukhtar A. Ali**, Ayman EL-SAYED and Ibrahim Z. Morsi "**A Survey of Multicast Routing Protocols for Ad-Hoc Wireless Networks** ", Menofiya Journal of Electronic Engineering Research (MJEER), Vol. 17, No. 2, pp. 185-198, July 2007.

2008

1	**Moukhtar A. Ali**, Ayman EL-SAYED and Ibrahim Z. Morsi, "**A Dynamic Core based Multicast Routing Protocol with shortest core-passive link (DCMP-SCPL) algorithm in mobile Ad-Hoc Networks**", Menofiya Journal of Electronic Engineering Research (MJEER), Vol. 18, No. 2, pp. 119-136, July 2008.

2011

1	**Moukhtar A. Ali**, A. Elmahalawy and H. Harb, "**Trends and Differences of Applying Intelligence to an Agent**", Journal of Telecommunications and Information Technology (JTIT), issue 4, pp. 119 – 123 , 2011