



## Curriculum Vitae (C.V.)

### GENERAL:

Name : Ehab Khaled EL-Rafai.  
Birth Date : 28 August, 1968.  
Nationality : Egyptian.  
Working Languages : Arabic - English.  
Address : 8EL-obour building, Salah Salam St.,  
Helioplies, Cairo, Egypt.  
Religion : Moslem.  
Phone : +(202)24039425 +(2012)3488821  
+(2011)8548888  
Military Status : Exempted.  
Programming Language: Visual Basic - Pascal - Visual C#  
Access - Excel - UNIX - Matlab - VHDL  
HTML - Flash MX - MS. Front page.  
E-mail Address : [ekrrehab@menanet.net](mailto:ekrrehab@menanet.net)  
ekrrehab@hotmail.net

### QUALIFICATIONS:

- 1) Time : From 1974 To 1986.  
Type of School : English School "Salam collage".
- 2) Time : From 25/6/85 To 9/7/85.  
Type of Study : Introduction to Computer.  
Place : Mohandes Information System.  
Degree : Excellent.
- 3) Time : From 27/7/85 To 7/8/85.  
Type of Study : Introduction to Programming.  
Place : Mohandes Information System.  
Degree : Excellent.
- 4) Time : From 3/9/87 To 4/10/87.  
Type of study : "Basic" Language.  
Place : Mohandes Information System.  
Degree : Very Good.

- 5) Time : From 22/7/89 To 16/8/89  
 Type of Study : "Pascal" Language.  
 Place : Statistical Studies Research  
 Institute Cairo University.  
 Degree : Excellent.
- 6) Time : From 1986 To 1991.  
 Type of School : Faculty of Eng. Cairo University.  
 Type of Degree : B.Sc. in Electronic & Communication  
 Eng.  
 Degree : Very Good "With the Grade Of Honor".  
 B.Sc. Project : CNC Drilling Machine.  
 Degree of Project : Excellent.  
 Field of Competence: Electronic & Communication Eng.  
 (Telephony)
- 7) Time : From 1993 To 1996.  
 Type of Study : Master of Science.  
 Type of School : Faculty of Eng. Cairo University.  
 Field of Competence: Electronic & Communication Eng.  
 M.Sc. Thesis : A Computer LAN Based Telephone  
 Switch.  
 Degree : Excellent.
- 8) Time :From Oct.19,1997 To Oct.26,1997  
 Type of Study :Fundamentals of Solaries 2.x  
 Type of School :TRIANGLE Trading & Engineering  
 Company
- 9) Time :From Dec.22,1997 To Dec.25,1997  
 Type of Study :Introduction to System Adminstration  
 Type of School :TRIANGLE Trading & Engineering  
 Company.
- 10) Time :From Dec.14,1997 To Dec.17,1997  
 Type of Study :Solaries 2.x System Administration  
 Type of School :TRIANGLE Trading & Engineering  
 Company.
- 11)Time : At 5 July,1999 for two weeks.  
 Type of Study : Design of a digital System on a Chip.  
 Type of School : Mentor Graphics Egypt.

12) Time : from Oct. 9<sup>th</sup> 2000 To Oct. 31<sup>st</sup> 2000.  
Type of Study : Top down design system on Chip & FPGA advantage.  
Type of School : Mentor Graphics Egypt.

13) Time : From 2000 till 1/9/2005  
Type of Study : Prepare Ph.D. in Blind Adaptive Equalizer for DS-CDMA "Analysis And Implementation of A Novel Blind Turbo Equalizer for DS-CDMA"  
Type of School: Faculty of Eng. Cairo University.  
Field of Competence: Communication & Electronics.

#### **MEMBERSHIP IN PROFESSIONAL ORGANIZATION:**

- 1) Egypt Syndicate of Professional Engineers.
- 2) Institute Of Electrical & Electronic Engineering (IEEE)
- 3) Electric Electronic Engineering Club (EEEC).

#### **PROFESSIONAL EXPERIENCE :**

- 1) Time : From 1987 To 1988.  
Type of Work: Training on Z-80 Processing, Interface and Application.  
Place : Electric & Electronic Engineering Club (EEEC).
- 2) Time : From 1988 to 1991.  
Type of Work: Training on 8088 Processor & Interfacing With XT & AT Motherboard.  
Place : Electric Electronic Engineering Club (EEEC).
- 3) Time : Summer 1989.  
Type of Work: As an Assistance For Maintenance Eng.  
Place : "COMPUTEC" Company.
- 4) Time : Summer 1990.  
Type of Work: As an Assistance For Maintenance Eng.  
Place : "Sakr Factory", Arab Organization for Industrialization.
- 5) Time : From 1991 Till 31/12/2004.  
Type of Work: Assistant Teacher at The High

Place                    Technological Institute (H.T.I.).  
                          :Tenth Of Ramadan City.

6) Time                 : From 1993     To 1996.  
Type of Work: Search Assistance.  
Place                 : National Telecommunication Institute  
                          (N.T.I).

7) Time                 : From 1993     To 1996.  
Type of Work: Supervisor & Installation on Novel  
                          (Netware) Version 3.12 20 user.  
Place                 : National Telecommunication Institute  
                          (N.T.I).

8) Time                 : From 1996 till 31/12/2004  
Type of Work: System Administer on Sun Work station  
                          Sparc 20 with operating system  
                          Solaris 2.5,3  
Place                 : High Technological Institute (H.T.I.).

9) Time                 : From 1996 till Now  
Type of Work: VLSI Designer using Software Tool from  
                          Mentor Graphics.  
                          \* Design Architect  
                          \* QuickSim II  
                          \* IC Station  
                          \* PCB Layout  
                          \* FPGA advantage  
                          • Renoir  
                          • Modelsim  
                          • Leonardo  
Place                 : High Technological Institute (H.T.I.).

10) Time                : 6/10/98   to 26/2/99.  
Type of Work: Training in the Radio Frequency (RF)  
                          Department to improve the service  
                          quality in GSM network and optimize  
                          frequency planning.  
Place                 : "Airtel Mobile S.A." Barcelona, SPAIN

- 11) Time : 1/1/2001 to 30/7/2001.  
 Type of Work: Design digital watch, Calculator and Microprocessor on VLSI Chip.  
 Place : High Technological Institute (H.T.I.).
- 12) Time : 1/2/2001 to 1/2/2002.  
 Type of Work: Design a Project on "Bluetooth" Kit for IEEE computer society competition.  
 Place : High Technological Institute (H.T.I.).
- 13) Time : 1/1/2001 up till now  
 Type of Work: Design Projects on Xilinx XS40 board using Foundation series 2.1i up to ISE Webpackage 6.1i.  
 Place : High Technological Institute (H.T.I.).
- 14) Time : 1/1/1992 up till 31/12/2004.  
 Type of work : Supervisor over many type of projects.
- Private Automatic Branch Exchange (4by1)PABX.
  - CNC Machines by 8051.
  - Printers.
  - Plotters.
  - Calculator by FPGA.
  - Watch by FPGA.
  - Watching machine.
  - Digital Signal Processing (DSP) LP filter.
- Place : High Technological Institute (H.T.I.).
- 15) Time : 1/1/1992 up till 31/12/2004  
 Place : High Technological Institute (H.T.I.).  
 Type of work : Instructor in these subject
- a. Logic circuits Code EEC 110
  - b. Logic Circuit (2) Code EEI 186
  - c. Electrical Circuits Code EET 113
  - d. Electronic Components Code EET 114
  - e. Electronic Circuits Code EEC 117
  - f. Advanced Electronic Circuits EEI 184
  - g. Intro. To Microprocessor Code EEC 116
  - h. Organization of Microprocessor Code EEC 201
  - i. Advanced Microprocessor Code EEC 209
  - j. Computer Interfacing Code EEC 230

- k. Computer Networks Code EEC 210
- l. Practical Communication Systems Code EET 190
- m. Network Analysis Code EEC 193
- n. Advanced Programming(1) Code EEC 130
- o. Advanced Programming(2) Code EEC 131
- p. Practical Training (3) Code EEP 233
- q. Communication Lab. Code EEL 235
- r. Design Using Computer (VLSI) Code EEC 272
- s. Advanced Electronic Lab. Code EEL 212

Place : High Technological Institute (H.T.I.).

16) Time : 1/1/2005 up till Now.

Type of work :Teacher at Internet and Multimedia Dept.

Type of work : Instructor in these subject

- a. Internet Programming by Java language MMI 406.
- b. Internet Programming application MMI 407.
- c. Introductions to telecommunication MMI 300.
- d. Introduction to Computer COMP 105
- e. Computer Application COMP 106
- f. Logic circuit
- g. Electronic circuit
- h. Modeling and system

Place : International Academy for Engineering and Media Science (I.A.E.M.S)

17) Time : 2011 up till Now.

Type of work :Teacher Electronic & communication Dept.  
(H.T.I.)

Type of work : Instructor in these subject

- a. Logic circuit (B)
- b. Random signal
- c. Communication system
- d. Communication I
- e. Electronic circuit

Place : High Technological Institute (H.T.I.).

### **Puplication:**

- Ehab K. El-Rafai, Emad K. Al-Hussaini, Aly E. Salama, Kamel M. Hassen “An adaptive minimum variance turbo blind equalizer for CDMA multiuser communication system through multipath Rayleigh Fading Channel”. Sci. Bull. Fac. Eng. Ain Shams University vol. 39 No. 3,pp 599-612, 30 September,2004.
- Ehab K. El-Rafai, Aly E. Salama, Emad K. Al-Hussaini, Kamel M. Hassen “A new implemented Blind adaptive equalizer for multiuser DS-CDMA receiver based on minimum variance algorithm by FPGA & Microcontroller.” Sci. Bull. Fac. Eng. Ain Shams University vol. 39 No. 4,pp 659-672, 30 Novamember,2004.