

Holds B. Sc. and M. Sc. in Communications & Electronics Engineering and has about 8 years hands-on experience, including 5 years working as Electronic Designer.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 20/04/1986
Gender : Male
Residence : Nasr City, Cairo

EDUCATION

- : B. Sc. in Communications & Electronics Engineering, Al-Azhar University, 2009
- : M. Sc. in Communications & Electronics Engineering, Al-Azhar University, 2015
- : PHD Student in Electrical Engineering, Al-Azhar University (from 2017 till now)
- : Secondary Education: El-Moatamadia Institute, El-Mahalla El-Kobra, 2004

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

- : Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : International license of Reactor operation (Mar. 2017).
- : Physical protection and nuclear safety (China, Beijing) (Jul. 2016).
- : Juniper networks certified internet associate, (JNCI-Ex) Exam (Oct. 2010).
- : Juniper networks certified internet associate, (JNCI-ER) Exam (Mar. 2010).
- : International Computer Driving License (ICDL) certificate (Sep. 2008).
- : Training for 3 weeks in Telecom Egypt Company (Aug. 2008).
- : Training for 1 month in Iron & Steel Factory (Jul. 2007).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Oct. 2014 till now
Employer : Egyptian Atomic Energy Authority (EAEA)
Job title : Electrical Engineer & Reactor Operator

Dates : From May 2012 till Sep. 2014
Employer : Karmoleed for High Tech.
Job title : Electronic Designer Engineer
Job Description : Designer of embedded systems using PIC-Microcontroller family and PCB Designer.

Dates : From Sep. 2009 till Apr. 2012
Employer : Cairo International Systems (CIS) Company
Projects : Designer of electronic circuits and software, then making simulation:

- Test Spring Machine (El-Wafa Spring Factory).
- Converting data line protocol (Adaptor) (Petrojet Company).
- Cut length machine (Donia El hydraulic).
- Pipe bending machine (Donia El hydraulic).
- GO/No-GO system (ACC Company).
- Smoke Trigger control unit for 12 slots (military 999 factory).
- Smoke Trigger control unit for 40 slots (military 999 factory).
- Irrigation system (Phyzer Company).

Job title : Software Engineer
Job Description : Designer of C/C++ programs for transferring programs from PC to CNC machines, and production lines control using PLC Delta / PIC Microcontroller.

Technical Skills:

- Electronics Field:
 - Professional in PIC Microcontrollers.
 - Designer of electronic circuits (Analog, Digital).
 - Designer of PCB with Proteus 7.8 professional.
 - Making simulation for any digital circuits with Proteus 7.8 professional.
- Programming Field:
 - Very good in C++ (OOP Object Oriented Programming).
 - Good background in data structures and algorithms.
 - MikroC PRO for PIC and MPLAB.
 - Microsoft Visual Studio.
 - Good background in Visual Basic and Matlab.
- Communications Field:
 - Nature of signals (Fourier series - Fourier transform).
 - Analog communications techniques:
 - PAM, PWM, PPM.
 - AM, FM, PM.
 - Digital communications techniques:
 - ASK, PSK, FSK, QPSK, DPSK and M-ARAY QAM.
 - Spread spectrum SS and pseudo noise PN.

- Frequency hopping (slow-fast).
- CDMA system.
- OFDM system.
- Coding Techniques:
 - Line coding:
 - On /off, polar, bipolar, duobinary, Manchester and HDP code.
 - Source coding:
 - Kraft inequality, Channon Fano and Huffman code.
 - Channel coding:
 - Linear block code, lookup table decoding, Cyclic coding and Convolution coding.

Publications:

- "NOISE MODELING CIRCUIT OF QUANTUM STRUCTURE TYPE OF INFRARED PHOTODETECTORS", International Journal of Semiconductor Science & Technology (IJSST), ISSN(P): 2250-1576; ISSN(E): 2278-9405, Vol. 4, Issue 2, Dec. 2014, 1-12, the best paper 2014.
- "OPTICAL CHARACTERIZATIONS OF QUANTUM STRUCTURE FAMILY OF INFRARED PHOTODETECTORS", Mansoura Engineering Journal, Vol. 39, No. 4, Dec. 2014.