103005-CSX-59MS-E-2014
R&D Embedded Software Engineer

Holds a B. Sc. in Electrical & Electronics Engineering and has more than 3 years hands-on experience working in automation field.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	12/03/1990
Gender	:	Male
Residence	:	Cairo

EDUCATION

: B. Sc. in Electrical & Electronics Engineering, German University in Cairo, 2014

: Secondary Education: Collège De La Salle, Cairo, 2007

LANGUAGES

Arabic	:	Native Language
English	:	Fluent
French	:	Fluent
German	:	Fair

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Embedded C Software & Controllers Course, Valeo Academy (May 2015).

: Engine Overhauling and Electrical Engineer Trainee, VW / Audi Group (4 months).

: Academic studies:

- Power electronics.
- Circuits designing and analysis.
- Control Systems design and analysis.
- Renewable Energy systems.
- Communicational electronics.
- Multiple programming languages.
- IC design and fabrication processes.
- System on-a-chip and Network-on-a-chip.
- Computer architecture and digital systems.
- Quantum and solid state electronics.

- Optical electronics.
- Sensors technology.

: Self studies:
- Theoretical physics: particle physics and Astrophysics (California and Colorado University courses).
- Aerodynamics and Fluid Mechanics (GUC and BUE courses).
- Internal combustion and General mechanics (BUE courses).
- Culinary studies: Amateur cooking courses.

: Training at VW/Audi Group, Cairo (Jul. 2010).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jan. 2017 till now
Employer : Valeo Egypt
Job titles :
- R&D Embedded Software Engineer, DSP Design SW Engineer
- R&D Embedded Software Engineer, SIL and Gazebo-Ros Radar DSP Simulation Eng.

Dates : From Jun. 2015 till Dec. 2016
Employer : Valeo Egypt
Job title : R&D Embedded Software Engineer, Sw Testing and Validation

Dates : From May 2014 till Nov. 2014
Employer : Schneider Electric Egypt
Job title : Technical Support Engineer, Power and Industry BU

Professional Projects:
- Radar Algorithm Testing model: Design and implementation of all the Radar Algorithms HIL Testing model at Valeo.
- 24GHz Radar DSP GAZEBO-ROS Simulation model: Design and implementation of the Ros model for radar DSP simulation using Gazebo-Ros on Linux.

Independent Work:
- Classic cars restoration: Restoration and Engine Rebuilding, my own Workshop.
- Implementation of Sensors and On-Board Computers in Classic cars: Car Electronics and sensors, my own Workshop.

Technical Skills:
- Gazebo-Ros.
- ROS Kernel on Linux.
- DSP Algos.
- ISTQB-CFTL: Foundation certified Tester.
- Automotive SPICE R Foundation.
- Unified Diagnostic Services (UDS) ISO 14229.
- ISTQB Agile Testing Training and Current Project.
- Design of Automated testing and nightly run Tools.

- Testing Algorithm Development.
- Mathematical Modeling Development.
- Impact analysis, Smoke Testing, Robustness Testing.
- Programming Languages: Java, C, C++ (System c), Python, Arduino, Assembly, VHDL, TeX, Verilog (Beginner).
- Tools: CANoe, Automated Validation Tools, Dimensions, VFlash, DSA, winIDEA.
- Mathematical Based Languages: Mathematica, Matlab, Haskell (Beginner).
- Embedded Systems Skills: Misra Regulations, Embedded C, PIC, Arduino, Xilinx, Raspberry Pi, PLC, PCB design/Home making.
- General Business Skills: great presentation skills, great communication skills, very good negotiation skills, work well in a team, good understanding of Inter-corporate Politics.