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***Education:***

* **Bachelor of Science in Electrical Engineering.**
* **Major:** Electronics & Communication Engineering.
* **University:** Zagazig University.

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***Work Experience:***

* **JELECOM –EGYPT 10th of Ramadan Branch Microcontroller & Electronics Instructor.**
* Jan. 2012-present.
* **JELECOM-EGYPT Head Office R&D Engineer.**
* Oct 2010 - Dec 2011.
* **JELECOM-EGYPT Zagazig Branch Electronics instructor.**
* Sep 2009 - Sep 2010

***Work Skills:***

* Highly familiar with electronic bench instruments (i.e. Oscilloscope, digital multi-meter, function generator, etc.)
* Design, set-up, operation, and trouble shooting of laboratory equipments.
* Electronics soldering and wire harness assembly.
* Knowledge in electronics assembly, testing, and repair.
* Electronics and PCB test and troubleshooting.
* Working knowledge of CAD tools for schematic analysis, PCB layout, and PCB analysis.
* Working knowledge of microcontroller.

***Training Skills:***

* Offer a combination of practical experience and up to date theoretical knowledge.
* Cultured and knowledgeable in many aspects of science.
* Introduce and demonstrate new software programs or websites .
* Encourage participants to manage their learning beyond their lab scheduled time using internet web facilities.
* Evaluated the performance of the participants & helped them in attaining their goals and objectives.
* Highly familiar with electronic bench instruments (i.e. Oscilloscope, digital multi-meter, function generator, etc.)
* Design, set-up, operation, and trouble shooting of laboratory equipments.
* Electronics soldering and wire harness assembly.
* Knowledge in electronics assembly, testing, and repair.
* Electronics and PCB test and troubleshooting.
* Working knowledge of CAD tools for schematic analysis, PCB layout, and PCB analysis.

***Work Experience:***

* **JELECOM –EGYPT 10th of Ramadan Branch Microcontroller & Electronics Instructor.**
* Jan. 2012-present.
* Technical supervision of the Electronic Circuits Laboratory.
* Purchasing all electronic elements for the electronics laboratory.
* Contacting local industries to make them aware of factories training programs.
* Providing technical support for local industries which include cheap and creative solving for electronic problems.
* **JELECOM-EGYPT Head Office R&D Engineer.**
* Oct 2010 - Dec 2011.
* Design or supervision of many projects like;
* Microcontroller training kits .
* GPS-GSM tracking system.
* laser distance sensor.
* smart home control system.
* digital oscilloscope.
* Smart traffic control system.
* ECG development board (medical electronics).
* **JELECOM-EGYPT Zagazig Branch electronics instructor. Jun 2009 - Sep 2010**
* Jun 2009 - Sep 2010
* Technical supervision of the Electronic Circuits Laboratory.
* Preparation and teaching laboratory courses that include the following topics:
* Analog electronic circuits design
* Digital electronic circuits design
* Microcontroller PIC programming
* VLSI fabrication and analysis
* Basics of TV&RF systems
* **Training Skills:**
* Analog electronic circuits design.
* Digital electronic circuits design.
* Microcontroller PIC programming.
* Siemens PLC-S7 programming.
* VLSI fabrication and analysis.
* Basics of TV&RF systems.

***Work Experience:***



* **Job Title:** Electronics Engineer
* **Employer:** JELECOM –EGYPT (Training Department)
* **Years of experience:** 5 years (Jun. 2009- Present)

***Work Responsibilities:***

* Technical supervision of the Electronic Circuits Laboratory.
* Design, set-up, and trouble shooting of laboratory equipments.
* Electronics soldering and wire harness assembly.
* Purchasing all electronic elements for the electronics laboratory.
* Introduce and demonstrate new software programs or websites.
* Contacting factories to make them aware of industrial training programs.
* Providing technical support for local industries which include cheap and creative solving for electronic problems.
* Design or supervision of many projects (R&D) like:
* Microcontroller training kits (2 versions).
* GPS-GSM tracking system.
* Laser distance sensor.
* Smart home control system.
* Digital oscilloscope.
* Smart traffic control system.
* Digital oscilloscope.
* Function generator.
* ECG development board (medical electronics).
* Preparation and teaching laboratory courses that include the following topics:
* Analog electronic circuits design.
* Digital electronic circuits design.
* Microcontroller PIC programming.
* VLSI fabrication and analysis.
* Basics of TV&RF systems.

***Work Skills:***

* Highly familiar with electronic bench instruments (i.e. Oscilloscope, digital multi-meter, function generator, etc.).
* Knowledge in electronics assembly, testing, and repair.
* Test, calibrate and repair many measurement devices.
* Electronics and PCB test and troubleshooting.
* Working knowledge of CAD tools for schematic analysis and PCB layout.

Work Experience

JELECOM –EGYPT 10th of Ramadan Branch Microcontroller & Electronics Instructor Jan 2012- present

* Technical supervision of the Electronic Circuits Laboratory.
* Purchasing all electronic elements for the electronics laboratory.
* Contacting local industries to make them aware of factories training programs.
* Providing technical support for local industries which include cheap and creative solving for electronic problems.
* Preparation and teaching laboratory courses that include the following topics:
* Analog electronic circuits design
* Digital electronic circuits design
* Microcontroller PIC programming

JELECOM-EGYPT Head Office R&D Engineer Oct 2010 - Dec 2011

* Design or supervision of many projects like:
* Microcontroller training kits .
* GPS-GSM tracking system.
* laser distance sensor.
* smart home control system.
* Fire alarm system.
* digital oscilloscope.
* Practical function generator.
* Practical PLC.
* Smart traffic control system.
* Digital voltmeter.
* ECG development board (medical electronics).
* **PLC Training Kit.**
* **CNC Machine .**
* **Micro Controller Training Kits (2 versions) .**
* **Stepper Motor Controller .**
* **Oscilloscope .**
* **Function Generator .**
* **Traffic Control System .**
* **Servo Motor Controller .**
* **ECG Development Board .**
* **Infrared Communication System .**
* **GPS tracking system.**
* **Smart home system.**

JELECOM-EGYPT Zagazig Branch electronics instructor Jun 2009 - Sep 2010

* Technical supervision of the Electronic Circuits Laboratory.
* Preparation and teaching laboratory courses that include the following topics:
* Analog electronic circuits design
* Digital electronic circuits design
* Microcontroller PIC programming
* VLSI fabrication and analysis
* Basics of TV&RF systems

Work Skills

* Highly familiar with electronic bench instruments (i.e. Oscilloscope, digital multi-meter, function generator, etc.)
* Design, set-up, operation, and trouble shooting of laboratory equipments.
* Electronics soldering and wire harness assembly.
* Knowledge in electronics assembly, testing, and repair.
* Electronics and PCB test and troubleshooting.
* Working knowledge of CAD tools for schematic analysis, PCB layout, and PCB analysis.
* Working knowledge of MATLAB

Employer Jelecom – Egypt (Engineering training department)

Years of 3 years

Experience

Job title Electronics Engineer(R&D)

Job Create, test, calibrate and repair measurement devices,

Description design useful electronic circuits and teaching industrial electronics courses,Purchased all supplies and equipment for the electronics program, Contacted local industries to make them aware of the electronics program

R&D Microcontroller training kits (3 versions),

Projects GPS tracking system, ultrasonic distance sensor, laser distance sensor, smart home control system, digital oscilloscope, function generator, traffic control system, infrared communication system, ECG development board (medical electronics).

Teaching Analog electronics circuits design (level1&level2), digital

Courses electronics circuits design (level1&level 2).

Microcontroller programming (level1), basics of RF&TV system and VLSI fabrication& analysis.

Software MikroC PRO for PIC Microcontroller programming, Proteus & NI Multisim for

electronic circuits design and Matlab for Signal processing operations, C \_ language.

Traning Courses Microcontroller programming, analog electronics circuits design, digital electronics circuits design, VLSI circuit design, IC fabrication, Printed circuit board( PCB).

My Duties :

* Write Firmware C Code For Microcontrollers.
* Applying verification & validation
* Analog and Digital circuit design.
* Programming Microcontroller as PIC (PIC 16, PIC 18 Families) and
* Performing Simulation by Proteus 7.2
* Interfacing Microcontroller with LCD's, keypads, encoders, sensors and analog devices.
* Communication between Microcontrollers with each other
* Interface Microcontroller with GSM Module to Send & Received SMS as MOD 9001 BENQ GSMGPRS Modem using AT Command.
* Interface many Devices using (ASCII & RTU) MODBUS Communication Protocol as Precision Digital Panel Meters & display & log the data using NI Lab view in PC.
* Sending & Receiving data through Wireless Module.
* Electronics Design for dedicated function.
* Schematic and PCB Design Using ISIS ARES.
* Design Data acquisition programs with labVIEW Programming Language.
* Calibration devices as ( flow meters, pressure transmitters , Load cells )
* Installing pressure gauges, RTDs, Level Switches &indicators, weighting system).