Holds a B. Sc. in Communication & Electronics Engineering and has about 8 years hands-on experience, including 1 year working as Automation Engineer and 7 years as Teaching Assistant.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	05/08/1987
Gender	:	Male
Residence	:	Maadi, Cairo

EDUCATION

- B. Sc. in Communication & Electronics Engineering, Thebes Academy for Engineering, 2009
- Currently working on M. Sc. in "PID Controller Adaptation Using Fuzzy Model Reference Algorithm and its Application to Non-Linear Systems", Ain Shams University
- Maadi Secondary School, 2004

LANGUAGES

Arabic	:	Native Language
English	:	Fluent

COMPUTER SKILLS

- Windows, MS Office (Word, Excel), Internet
- MiKro.C for AVR
- MiKro.C for PIC
- Arduino IDE
- MATLAB, Simulink
- Wincc Explorer
- Simatic Manager
- Quartos
- ModelSim
- Visual Basic

TRAINING COURSES AND CERTIFICATIONS

- Microcontroller - Micro.C for PIC (Cairo University).
- Microcontroller - Micro.C for AVR (Cairo University).
- Arduino.

	:	MATLAB, Simulink (Cairo University)
	:	VHDL (Cairo University).
	:	PLC (Jelecom Company).
	:	Analog and Digital Control Systems (Cairo University).
	:	Verilog (Cairo University).
	:	GSM (Jelecom Company).
	:	GPRS (Jelecom Company).
	:	UMTS (Jelecom Company).
	:	CDMA (Jelecom Company).
	:	VOIP (Cairo University).
	:	OFDM (Cairo University).

CHRONOLOGICAL EXPERIENCE RECORD

Dates	**:**	From Apr. 2012 till now
Employer	**:**	Thebes Academy for Engineering
Job Description	**:**	Teaching Assistant in:

- PLC.
- Automatic Control.
- Logic Circuit Design.
- Electronics.
- Electronic Measurements.
- Coding Theory.
- Satellite Comm.
- Optical Fiber.
- Field Theory.

Dates	**:**	From May 2011 till Apr. 2012
Employer	**:**	Asec Automation
Job title	**:**	Automation Engineer
Job Description	**:**	

- South Valley Cement Plant – Egypt / Beni Suef (from May till Oct. 2011): Programming of a number of the planet sectors + Making the whole As Built documents of the Plant.
- TITAN Cement Plant – Egypt / Beni Suef (from Oct. 2011 till Jan. 2012): Handling of FAT, Programming of a few numbers of the Planet sectors + Studying the existing and As Built drawings and Re-Document them as well.
- BMIC Cement Plant – Egypt / Assiut (from Jan. till Apr. 2012): Site Survey and studying existing P&ID and As Built drawings, Plant commissioning, start-up activities & troubleshooting.

Dates	**:**	From Oct. 2009 till May 2011
Employer	**:**	Thebes Academy for Engineering
Job Description	**:**	Teaching Assistant in:

- PLC.
- Automatic Control.
- Logic Circuit Design.

- Electronics.
- Electronic Measurements.
- Coding Theory.
- Satellite Comm.
- Optical Fiber.
- Field Theory.

Projects:

- Design and implementation of Quadcopter using Arduino Due and a group of sensors:
  - BMP085 to measure altitude through pressure measurement.
  - MPU9150 which contain Accelerometer, Gyro and Compass sensors and these sensors used to control the balancing of the quadcopter through a closed loop controller which based of Adaptive PID controller which has Kp, Kd and Ki values will be adapted according to the sensors values.
  - Ultrasonic sensor to make the quadcopter able to avoid any obstacle in front of it.
  - XBee module works as a communication method between the quadcopter (Flying station) and the laptop as a ground station.
- Home Automation design and implementation using Arduino Mega:
  In this project, I controlled the lighting of the home rooms and the garage door through Arduino and group of sensors:
  - Ultrasonic sensor working as proximity sensor.
  - Infrared Sensor.
  - PIR sensor to detect motion.
  - Keypad and servomotor to open the garage door when the combination entered through the keypad is correct.