

Holds B. Sc. in Electrical Power & Machines Engineering, M. Sc. and PhD in Engineering (Mathematics dept.) and has over 21 years hands-on experience working in I&C field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/12/1973
Gender : Male
Marital Status : Married

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Cairo University, 1996
: M. Sc. in Engineering (Mathematics dept.), Cairo University, 2002
: PhD in Engineering (Mathematics dept.), Cairo University, 2010

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet
: Visual Basic, Data Base Design, AutoCAD

TRAINING COURSES AND CERTIFICATIONS

: Egypt Mathemaica Conference 2010, 23-24 June, Cairo University Room G, Conference Center, Dokki, Giza, Egypt.
: Training Session "M100: An Introduction to Mathematica", UNESCO Regional Training Center, 33 ELmesaha st., Dokki, Giza, Egypt.
: 2010 IEEE International Conference on Engineering and Engineering Management (IEEM), Macau – China (7-10 Dec. 2010).
: 14th International Conference on Aerospace Sciences and Aviation Technology (ASAT – 14), Military Technical College, Cairo – Egypt (24-26 May 2011).
: Weir Valves & Controls Middle East Representative Technical Meeting – Dubai (22-24 Apr. 2012).
: Weir International South Korea Meeting & GASTEC Exhibition – Seoul, South Korea (22-26 Mar. 2014).
: English: TOEFL score 500 (Apr. 2005).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jan. 2011 till now
- Employer** : Comex Commercial S.A.E.
- Job title** : Business Development Manager & Head of Mechanical Department
- Job Description** :
- Work as Business Development Manager to follow up business of the Mechanical Department including Valves (Manual & control applications), Safety Relief Valves, Air Treatment Applications. Main task to promote the sales activities of the department and achieve better figures / Targets. Main customers were ENPPI, GUPCO, Rashid Petroleum Co., Burullus Gas Company, South Dabaa Petroleum Co., EGAS, Amerya Petroleum Co., GASCO.
 - Overhauling of Vacuum Furnace of EGYTRAFO – Badr City (01/07 – 05/07/2012): Scope of work is to control Furnace, 3 phase of operation (heating, Vacuum, oil filling under Vacuum).
 - ESIIIC – EDFU Mud Filter: selection, sizing, programming, erection & commissioning of 4 control loops (2 pressure loops, 1 flow loop and 1 Temperature Loop).
 - ENPPI A&K Project (PSV Package) - end customer BAPETCO: selection and sizing of the required Safety Relief Valves. Negotiation with customer from bidding, Engineering till award. Arrange between other working team; procurement, expediting, financial and successful follow up till delivery.
 - ENPPI KPC QASR Project (PSV Package) - end customer KPC (capital project): selection and sizing of the required Safety Relief Valves. Negotiation with customer from bidding, Engineering till award. Arrange between other working team; procurement, expediting, financial and successful follow up till delivery.
 - El Hamra Oil Co. Project # OPR 136/2012 (design, erection and commissioning of 2 land oil separator and manifold): selection / sizing/ erection/commissioning of field instruments, PSV, Control Valves. Project negotiation both technical and commercial issues.
 - Aug. 2015: Commissioning of 3 x Electric Actuators (1x Drehmo and 2x Flowserve) at El-Tebbin Power Plant with PSP as contractor (3 working days). Review interconnecting wiring diagram, parameterizing, limit switch feedback calibration.
 - Jul. 31 – 2 Aug. 2016: supervision on erection and commissioning of SPX – DELAIR External heated Air Dryer at Suez Oil Processing Co. – Suez. Review installation, wiring diagram, start-up and parameters till successful start-up.
 - Aug. 2016 (20-23): supervision on overhauling complete Gasket set for Weir POSRV 78/DSCB pilot at Khalda Salam Base under ENPPI Team (Qasr Project – Western Desert).

- Dates** : From Dec. 1999 till Nov. 2010
- Employer** : IBN Engineering
- An international company working in the field of Instrumentations and Control with mother branch in Germany, working mainly in the process industry for conventional control, PLCs and DCS or even SCADA systems.
- Job Description** :
- Started as Electrical Power Engineer for Zifta New Navigation Lock project; located in Zifta, Gharbia Governorate and Modernization of

APCC mil no. 6; located in Alexandria Portland Cement Co. Al Max, Alexandria, to design the distribution panels for loads, protection circuits elements, cable cross section selection for all motors with different rating from 0.18 Kw to 110 Kw based on SIEMENS SIRUIS 3R (3RV, 3RT and 3RH) series.

- Continued as Control & Sales Engineer, during this period I participated in: PLC system for WATER TREATMENT PLANT for Cairo Oil Refining Co. (CORC), Tanta Refinery, Kafr Arab – Tanta – Gharbia, (2003): designing, assembling, wiring, supervision, and commissioning. PLC system consists of 1x main panel + 1x control and operating disk. This project based on Allen Bradley SLC 5/03 with software RSLogix 5000 and visualization RS View. The main function was 5 filters alternate for washing with mechanical / electronic selector between them in three modes "AUTO/Semi-Auto / Manual".
- From Jan. 2005 till Dec. 2007: worked as Sales Manager for both IBN Egyptian Branch and German Branch. The main target was increasing IBN Turn over from 0.5 M Euro by the end of 2004 to more than 2.0 M Euro by the end of 2006. Re-build the sales department. Arranging the data base of the company. Arrange for good sleeve handling for Import/Export either from agencies or others. The main turnover of IBN by end of 2008 was around 3.5 M EUROS. During this period I managed / achieved the following activities:
 - Speed monitoring / control of Kawazaki Turbine in SIIC, Kom Ombo, Deshina, Gerga Sugar Factories, 2006: Programming of speed indicators, supervision on erection and commissioning on site for the delivered speed sensors (IFM Proximity sensors) and speed indicators (MARTENS ELEKTRONIK GmbH).
 - Drum level control in SIIC, Chemicals Factory located in Hawamdia, 2007: Arranging for panel design, wiring diagrams and put the delivered goods into the successful operation. Supervision, erection & commissioning for 2x control valves, 2x transmitters, 2x digital controllers, 1x pt100, 1x indicator and 2x set point adjuster (Hand Station).
 - Supervision on erection and commissioning of 5x electric actuators delivered to SIIC, Nag Hammadi and Deshina Factories, 2007: Programming, calibration and wiring of the delivered actuators (product of EBRO ARMATUREN GmbH).
 - Programming, erection and commissioning of Schenck DISOMAT 2000, weighing scale in Fayoum Sugar Co., Fayoum, 2006: Programming, erection, interconnections between weighing scale and SIEMENS S5-115 U system and calibration of scale.
- From Jan. 2008 till Nov. 2010: worked as Projects & Technical Support Manager, during this period I managed / achieved the following activities:
 - Modernization of Bleaching Autoclaves in AZCC Factory (WAGO 750-841 PFC and RIO), 2008: Design, assembling, erection, programming and commissioning of the delivered 5x PFC 750 – 841 WAGO PLC system, 5x TOUCH Panel HMI (VISAM visualization system). Running the plant in 4 modes of operation; (Manual / Semi-Auto/Automatic) through PLC and Manual out of PLC through set of Selector switches erected for each Autoclave. Training of AZCC Engineers and Operation staff. The project is still in hot commissioning phase.
 - Waste Water Treatment Plant, MEPPCO, Edfu, Egypt, 2008:

Design, selection of the proper field instruments (transmitters, indicators, controllers and Control valves), programming, panel assembly, internal wiring and supervision on erection and commissioning in site.

- Programming and commissioning of AUMA Electric Actuators, Sidi Krir Power Plant, 2008: Programming of the delivered electric actuators. Wiring digrams and interconnection to SIEMENS TELEPERM II System. Calibration and fine tuning with the main SCADA system in the station.
- Pressure Reducing Station (13/3 bar, 350 / 135 0C) in SIIC, Abou Korkas Factory, 2008: Design, selection of field instruments, panel arrangement, supervision on erection and commissioning and successful start-up of the station. Programming / calibration of all delivered instruments.
- Maintenance Contract of AZEC, Gas Separation Plant, Abou Zabaal, Egypt for 1 year (2008 /2009): Supervision / monitoring / running the plant with full capacity and minimizing stoppage periods to the minimum /spare parts lists/ periodical maintenance schedules. The plant includes (2 CAMERON Compressors, 4 different PLCs, different categories of field instruments, main extraction column, 3 storage tanks, etc...) by the end of that year we increase the plant capacity to 150%).
- Kom Ombo Rear Project as partnership with Giza Systems, 2009: Offering/arranging with principals, proposal and technical assistance during bidding, erection and commissioning of the delivered control valves (Globe, Ball, BF control valves).
- 2x Self cleaning units in Damietta Power Plant (750- 841 WAGO PFC), Damietta, Egypt, 2009: Design, programming wiring, supervision on erection and commissioning and successful start-up. The project was duplicated for 2 extra units after successful operations & start-up.
- Synthomer Latex Plant, 10th of Ramadan city, Egypt (750-841 WAGO PFC, WAGO OPC Server and Visual Basic Visualization), 2010: Selection of all field instruments (valves, motors, frequency inverters, weighing system, pressure and level monitoring, MCC LVSWG of all the motors in the field, etc..) design, engineering, technical / engineering documentations. Erection, programming and commissioning and successful starts up. The project volume is around 450 K EUROS (including all deliveries, services, etc.).
- Replacement of Automatic Voltage Regulator (AVR) of turbine # 2 (10 MVA, 11 KV, 525 A, 0.8 PF) located at Fayoum Sugar Works Co. Model DECS-15 with DECS- 200, product of Basler Electric Co., 2011: the job to rewiring, erection, programming, commissioning and successful paralleling of turbine # 2 with turbine # 1 and then monitoring the stability of AVR during load sharing between two turbines.

Dates : From Mar. 1997 till now
Job Description : Working in Faculty of Engineering in Fayoum (Engineering Mathematics dept.), I am now Lecturer since Sep. 2010.

Dates : From Nov. 1996 till Feb. 1997
Employer : El Shomooe Sea Co. (located in 6th October City)
Job title : Electrical Engineer
Job Description :

- Design, erection commissioning of all electrical circuits and load in the boats.
- Working shop managing and establishing to support the company target.
- Team Leader for 5 electrical technicians, making reports and planning for future activities.

Dates : From Jul. 1996 till Oct. 1996
Employer : Khalda Petroleum Company
Job title : Instrumentation & Control Engineer

Dates : From 1995 till 1996 (during my bachelor year)
Job Description : Worked with my Prof. Dr. Mamdouh A. El Aziz as a design and product out assistance for:

- All LVSWG lighting and motor protection circuits in his consultant office.
- Cables selection based on the load using the Egyptian codes and calculation of voltage level drop.
- Calculation of fault level in LV and MV power systems and get out the delay time for each CB in the network starting from the load till the main CB.
- Cables testing in HV laboratory test in Faculty of Engineering, Cairo University.

Published Papers and Articles:

- Magdy A. El-Tawil, H. El Zoheiry and Sherif E. Nasr "Nonlinear Cubic Homogenous Schrodinger Equations with Complex Initial Conditions, Limited Time Response", The Open Applied mathematics Journal (2010), 4: 6-17.
- Magdy A. El-Tawil, H. El Zoheiry and Sherif E. Nasr "Nonlinear Quintic Homogenous Schrodinger Equations with Complex Initial Conditions, Limited Time Response", Proceedings of IEEE International Conference on Engineering and Engineering Management (IEEM), Macau – China (2010), 2121-2128.
- Magdy A. El-Tawil, Sherif E. Nasr and H. El Zoheiry "On Solution of Nonlinear Cubic Non-Homogenous Schrodinger Equation", 14th International Conference on Aerospace Sciences and Aviation Technology (ASAT – 14), Military Technical College, Cairo – Egypt, May, 24-26, 2011.
- Magdy A. El-Tawil, Sherif E. Nasr and H. El Zoheiry "On Solution of Nonlinear Cubic Non-Homogenous Schrodinger Equation", World Congress on Engineering 2013 Vol I, London, U.K, ISBN: 978-988-19251-0-7, ISSN: 2078-0958 (Print); ISSN: 2078-0966 (Online).

Field of experience :

- Advanced in Computer Hardware.
- Good in Mobile Communication and Computer Network.
- Good in Electrical Power and Electronics.
- Good in Digital Communication System.

- Working with SIEMENS SIMATIC S5 and S7-200 and S7-300.
- Working with ALLEN BRADLEY, SLC 5/03, RSLOGIX and RS VIEW.
- Working with ABB CONTROL IT (FREELANCE 2000, S800 RIO).
- Working with WAGO RIO series 750 and PFC 750 – 841 in many applications and different projects.
- Integration between ABB CONTROL IT, SIEMENS S7-300 and WAGO RIOs, series 750.
- Have a good background of all field instruments (pressure, PH, Level, Flow measurement, control valves, etc...) product of many different reputable manufacturers.
- Have good experience with METSO AUTOMATION Scope of Products (control / ON-Off valve, ESD applications (BF, Segment, Rotary-Globe, Finetrol, etc...), SMART Products (ND9000 valve controller, Valve Guard, Switch Guard, FieldCare, etc...).
- Have good experience with EBRO ARMATUREN (ON-OFF / Control valves (BF valves with Electric & Pneumatic Actuators).
- Have good experience with ARCA Regler GmbH control valves and PRDS, etc...
- Have good experience with Siemens (instrumentations scope of products for Pressure, Level, Flow, analytical, E/P positioners, LVSWG controls, etc...).
- Have good experience with E+H (Endress & Hauser) Scope of products for Pressure, Level, Flow, Analytical, Recording, Temperature Applications.
- Have good experience with ABB (I&C applications).
- Have good experience on Safety Applications (Safety Relief Valves and Rupture disks), selection and sizing based on Sarasin RSBD - Weir Power Industrial & BS&B Safety Systems respectively.