Curriculum Vitae

Instruments Engineer

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Career Objective

I am looking for a good position in the field of instruments and automation in a prestigious company where previous skills and capabilities can be put to efficient use. I possess effective organizational skills and the ability to supervise a team and develop the final output.

***Personal Details***

Profile: Male, 38, Married, Egyptian, Muslim

Current Position: Instruments and Control Systems Engineer

Current Location: Jeddah – Saudi Arabia

VISA (Iqama) Status: Valid - Transferable

***Summary of Skills:***

* About 12 years of experience as an instrumentation and control systems engineer in detailed maintenance, commissioning and development co-ordination of instruments and control systems in Power Plant, Desalination Plant and Mixing Plant projects.
* Configuring and faults diagnosis of DCS, PLC, SCADA, RTU, Profibus Communication, Analyzers and Control Loops.

 **o** DCS : PCS7 v6.0 Siemens and Centum CS3000 Yokogawa

 **o** PLC : Siemens simatic S7 200,300,400 and GE Fanuc series 90-30
 **o** SCADA : WINCC/Siemens, ICONIX and IFIX/GE

* Installation, calibration and loop checking of the field instruments ( Emerson Rosemount, ABB, Endress & Hauser, Bently Nevada, Honeywell, Yokogawa, Vega, Polysonics,.......)
* Maintenance and calibration of the control valves ( Pneumatic, Part turn, MOV, NRV,..... ) of Weir Blackborough, Flowserv, Bray, Airtorque, Copes-Vulcan, Valtek, Masoneilan, Auma matic,......
* Experienced in flowmeters configuring (electromagnetic, orifice plate, ultrasonic, turbine, variable area ) of ABB, Rosemount, Krohne,+GF+,.....
* Designing, Implementing and Commissioning of new control loops as per site requirements.
* Review of control philosophy, P&I diagrams, cause & effect diagrams, instruments list, flow chart
* Familiar with engineering standards ISA, IEEE, ASTM, NAMUR, ASMI , ANSI , NEMA , IEC
* Preparing master data sheet for PM schedule; ensuring safe and efficient performing of CM
* Technical Support for the instrumentation team.
* Experienced in the field instruments and control systems procurement activities
* Spares balance investigation and inventory control for all instruments’ spare parts
* Excellent communication interpersonal skills.

***Educational Qualifications:***

1997........ Bachelor of Control Systems and Electronics Engineering, Mansoura university......... Egypt

 2000........Higher studies Diploma in Artificial Intelligence System, Mansoura university...............Egypt

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***Organizational Experience***

***Organization***: Kindasa Water Services company, Jeddah – Saudi Arabia

***Duration***: Jan 2011 till now

***Designation***: Instruments and Control Systems Engineer

***Project*** ***Description***: Sea Water desalination plant 40,000 m3/day desalinated water, SWRO

 technology, Booth Welsh Automation.

***Responsibilities***:

* Leading a team of four instrument technicians
* Reporting periodically to Maintenance Manager; preparing KPI, PM and CM reports.
* Troubleshooting the totally integrated automation TIA from Siemens ( DCS PCS7 v6.0 + PLC simatic S7 400 + SCADA WINCC ) software and hardware .
* Troubleshooting of redundant Profibus communication between 30 RTUs and the contrl room ; comprising of 2 pair hot/standby controllers and pair of dual redundant scada servers.
* Planning required upgradation for instruments to achieve production quality and cost minimizing.
* Maintenance and calibration of pneumatic control valves ( Weir, Flowserv, Blackborough,..... ) and part turn actuated valves ( Bray, Airtorque,Flowtek,..... )
* Maintenance and calibration of different analyzers : Conductivity, Chlorine, PH, SDI, Redox, Turbidity, TDS ( Endress and Hauser ) and IMA/FL200 Oil in water
* Maintenance and calibration of flowmeters ( electromagnetic, orifice plate, variable area, turbine, ultrasonic..... ) of ABB, Krohne, Rosemount, +GF+, Polysonics
* Maintenance and calibration of transmitters PT, LT, TT, DPT (Emerson Rosemount, Endress & Hauser, ABB ,.....) and Monitran vibration transducers.
* Calibrating and adjusting the dosing pumps (Prominent)
* Cathodic protection testing for five 10,000 m3 reservation tanks
* Ensure Spares balance and inventory control for all instruments’ spare parts

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***Organization***: RIO Trading company, Jeddah – Saudi Arabia

***Duration***: April 2007 to Dec 2010

***Designation***: Instruments Engineer

***Project*** ***Description***: Mixing plants including Asphalt plants 300 T/h Wuxi Xuetao - China, and

 Concrete plants 200 m3/h CUOGHI - Italy; automated by PLC- SCADA system.

***Responsibilities***:

* Involved in the mixing plants erection works, commissioning and maintenance.
* Troubleshooting of PLC system ( Siemens simatic S7 300 ) and faults diagnosis .
* Programming of plant microcontroller
* Calibrating of weighting systems including load cell 15 ton capacity
* I designed, implemented and commissioned automatic control systems for adding polymer to asphalt batches; and chemicals to concrete mix.
* Planning and implementing additional control loops as per site requirements
* Maintenance & calibration of Dryer temperature control system ( Honeywell )
* Strong background in motor defects, softstarters, drives, star/delta starters, VFD, MCC
* Printed circuit boards PCB Repairing, Designing, and Modifying .

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**Organization**: Delta Fertilizers and chemical industries company, Mansoura - Egypt

**Duration**: Dec 1999 to April 2007

**Designation**: Instruments Engineer

**Project** **Description**:18 MW Steam Turbine Power Plant, Rolls Royce – supplying power to the factory.

**Responsibilities**:

* Leading a team of five instrument technicians
* Programming PLC (GE Fanuc series 90-30 ) by Ladder Diagram, and hardware troubleshooting
* Basic troubleshooting of SCADA (IFIX/GE – ICONIX ) and DCS CS3000 Yokogawa
* Maintenance & calibration of transmitters PT, LT , TT , DPT ( Rosemount, Yokogawa, Vega, Foxboro, Honeywell......)
* Maintenance & calibration of turbine governer control system, and Bently Nevada 3500 measuring system ( Acceleration, Velocity, Thrust, Vibration,......)
* Maintenance and calibration of pneumatic control valves (Blackborough, Copes-Vulcan, Valtek, Masoneilan) and motorized valves ( Auma matic & Auto tork )
* Maintenance and calibration of orifice plate flowmeters ( Rosemount ) & gas turbine flowmeters
* Configuring of stack sampler set , and O2 analyzer
* Trainer at the company training center

***Training***

* SCADA Summit, *attending*, ...................Dammam; March 2012
* Water desalination technology, trainee*,................* Jeddah 2011
* ISO 9001 : 2008 standards, *trainee,.....................* Jeddah 2011
* DCS Centum CS3000 YOKOGAWA ,*trainee,..* Mansoura 2007
* Control Valves ,*trainee,....................................* Mansoura 2006
* Computer sciences ,*trainer,.............................* Mansoura 2003

***IT Skills***

* Operating systems : Windows XP, 7,NT, 2008 Server
* Programs : Office Tools , AutoCAD
* Internet : Very good
* Programming languages : Visual Basic, C++
* PLC Programming : Ladder Diagram
* Control Programs : PCS7 v6.0 Siemens & CS3000 DCS, WINCC& IFIX SCADA
* PC Networking : Very good
* PC HW maintenance : Experienced

***Languages***

English: Fluent; read, write and speak

Arabic: Mother tongue

***Availability***

Earliest start date: Given 3 weeks notice

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**Declaration**

I hereby declare that all information stated above are true to the best of my knowledge.

(Last Updated on April 2012)

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