

Osama Mahmoud Mostafa Fahmy

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Instrumentation & Control Senior Engineer

Objectives

To pursue a career as an Electronic Engineer **(Automation, Instrumentation and Control)** *and obtain a responsible position in a company where my experience, accomplishments, and proficiency will allow me the opportunity for achievement of the company challenges .*

Qualification

BS.C Electrical Engineering / Section of Communication & Electronics, June 2002 - Tanta University.

Experience

1- *Working as* ***a Commissioning Instrumentation & Automation Engineer*** *Under Elsewedy& Mitsubishi Hitachi Power System (MHPS) Consortium in LAYYAH Project 2 GT (M701F) * 2 HRSG*1 ST 1100 MW IN UAE from (November 2020) till (July 2021)*

DUTIES & RESPONSIBILITIES include and not limited the following:

- For Automation activites :

-Providing assistance (Logic simulation & Logic/Graphic modification & fixing Hardware issues) as Automation Engineer during start-up activities .

- Providing assistance (Logic simulation & Logic / Graphic modification & fixing Hardware issues) as Automation Engineer during Commissioning activities .

- Providing assistance for Rectifying all official Logic/Graphic comments (Logic/Graphic modifications requests & punch items / WDRs / NCRs)

- For Field Instrumentation Activites :

- Performing internal Testing for pre-commissioning activities (cold loop check & impulse tubing leak test & SAT of all control systems) and commissioning activities (hot loop check , function test , TOCs) .

- Performing with the client external Testing (with Client) for pre-commissioning RFIs (cold loop check & impulse tubing leak test & control panels energization & SAT) AND Commissioning RFIs (hot loop check , function test , logic check ,TOCs) .

- ***Troubleshooting analysis & maintenance service*** as Instrumentation engineer during Commissioning & start-up activities for whole project systems .

2- *working under ESBI COMPANY as* ***I&C Field Consultant Engineer*** *in Waad el shamal project (Integrated Solar Combined Cycle Power Plant (ISCCPP) with a net power of 1270 MW in 4-4-1 configuration) IN Kingdom of Saudi Arabia from (20 September 2017) till (Oct 2018) .*

Duties & Responsibilities :

Main duties is instrumentation & control consultancy services:

- Inspection : for construction RFIs, pre- commissioning RFIs, commissioning RFIs and decide which can be accepted (by or without comments) and which should be rejected or rescheduled.
- Working day/night shift for supervision & reporting Start-up & commissioning activities and abnormal issues.
- Tracing site for surveillance and raise the discovered issues as WDRs/NCRs
- Consulting engineering for Documents & Drawings & Contract's Specifications.
- Join I&C discipline daily meeting, Join common commissioning daily meeting for discussion / decision of actual site's situation.
- Engineering activities: Review Modifications DCNs/FCNs (if required) of all Documents & Drawings for Approval .
- Inspection for closing punch list and WDRs/NCRs .

3- *Working under WORLEY PARSONS COMPANY as* ***Commissioning I&C Senior Consultant Engineer*** *in COMBINED CYCLE POWER PLANT PP10 (10 CC * 400 MW = 4000MW) IN Kingdom of Saudi Arabia from (25 December 2015) till (30 August 2017) .*

Duties & Responsibilities :

Main duties is instrumentation & control consultancy services:

- Inspection : for construction RFIs, pre- commissioning RFIs, commissioning RFIs and decide which can be accepted (by or without comments) and which should be rejected or rescheduled.
- Working day/night shift for supervision & reporting Start-up & commissioning activities and abnormal issues.
- Tracing site for surveillance and raise the discovered issues as WDRs/NCRs
- Consulting engineering for Documents & Drawings & Contract's Specifications.
- Join I&C discipline daily meeting, Join common commissioning daily meeting for discussion / decision of actual site's situation.
- Engineering activities: Review Modifications DCNs/FCNs (if required) of all Documents & Drawings for Approval .
- Inspection for closing punch list and WDRs/NCRs .

4 - Working under **SEC (Saudi Electricity Company)** as **I&C Senior Consultant Engineer** in COMBINED CYCLE POWER PLANT **PP12** (2 CC * 1050 MW) in Kingdom of Saudi Arabia from (10 Feb 2015) till (25 December 2015) **.**

Duties & Responsibilities :

- Inspection: for construction RFIs, pre- commissioning RFIs, commissioning RFIs and decide which can be accepted (by or without comments) and which should be rejected or rescheduled.
- Working day /night shift for supervision & reporting Start-up & commissioning activities and abnormal issues.
- Tracing site for surveillance and raise the discovered issues as WDRs/NCRs .
- Consulting engineering for Documents & Drawings & Contract's Specifications.
- Join of I&C discipline daily meeting, Join common commissioning daily Meeting for discussion / decision of actual site's situation .
- Engineering activities : Review Modifications DCNs/FCNs (if required) of all Documents & Drawings for approval.

5 - Working under Petrojet Company **as E&I Construction Engineer** in Assil & Karam Gas Development project in West Desert of Egypt from (20 August 2013 till (1 September 2014) .

Duties & Responsibilities :

- Following the progress of Cable pulling , instruments installation , Trays & junction boxes installation and electrical & control panels installation .
- Performing cables continuity & megger internal tests .
- Control system Hardware configuration & installation .
- Following progress of cables termination .
- Finalize & rectify all E&I QC/QA issues .
- Coordinate with QC/QA to raise ready external RFIs to be inspected by Client .

6 - **Permanent job** under **Energy & Electricity Ministry** in **EGYPT** at Damanhour Thermal Power Plant (300MW) as:

- **I&C Maintenance Engineer** from (20 May 2003) till (9 Jan 2009) .
- returned back as **Senior I&C Maintenance Engineer** from (10 June 2011) till (31 July 2013) .
- re-again returned back as **Senior I&C Maintenance Engineer** from (OCT 2018) till (July 2020) .

(((Take more than once an official vacation to work abroad))))

Duties & Responsibilities :

- Senior job of I&C Department (Arrange schedule for preventive maintenance and arrange & distribute work permits for all I&C memberships , join Top level meetings for discussion / decision of actual site's situation .
- Calibration & maintenance for field instruments.
- Troubleshooting analysis for all discovered issues which effect on the operation processes .
- modification in the control system(hardware, software, processes logic design) for any addition / extension /modification in operation systems.
- Modification in the field side (hardware, cable pulling, cable termination, instruments installation /calibration) for any addition / extension /modification in operation systems .
- Engineering activities: Review Documents & Drawings, Contract's Specifications (in case of new additional systems/projects) and Tenders .

7- Working under **NEM Company** *in El-ATF Power Plant Combined Cycle (1*750 MW) since (15 March 2010) till (30 MAY 2011) as* **Chief I&C Commissioning Field + DCS Engineer .**

Duties & Responsibilities :

- Performing internal Testing for pre-commissioning activities (cold loop check & impulse tubing leak test & SAT of all control systems) and commissioning activities (hot loop check , function test , TOCs) .
- Performing with the client external Testing for pre-commissioning RFIs (cold loop check & impulse tubing leak test & control panels energization & SAT) AND Commissioning RFIs (hot loop check , function test , logic check ,TOCs) .
- Providing Troubleshooting analysis & maintenance services as instrumentation engineer during Commissioning & start-up activities for whole project systems .
- Providing assistance (Logic simulation & logic / graphic modification & fixing hardware issues) as DCS ENGINEER during start-up activities for whole project .
- Rectify all official DSC comments (modification requests & punch items) .

8 - Working under **Toshiba-Toyota (TPSC-TTC) corporation** *in El- ATF Power Plant Combined Cycle (1*750 MW) since (15 JAN 2010) till (15 March 2010) as* **I&C Engineer .**

Duties & Responsibilities :

- Providing Troubleshooting analysis & maintenance services as instrumentation Engineer during commissioning & start-up activities for whole project systems .
- Performing internal Testing for pre-commissioning activities (cold loop check & impulse tubing leak test & SAT of all control systems) AND commissioning activities (hot loop check , function test , logic check , TOCs)
- Performing with the client external inspections for pre-commissioning RFIs (cold loop check & impulse tubing leak test & SAT of control systems) and commissioning RFIs (hot loop check , function test , logic check ,TOCs) .

9 - Working in **Enel Power & Ansaldo Caldai Consortium** **in** *Thermal power plant (4 *150 MW) in Kingdom of Saudi Arabia as* **Commissioning Supervisor DCS Engineer** *since (9 JAN 2009) till (9 July 2009).*

Duties & Responsibilities :

- Providing assistance (Logic simulation & Logic/Graphic modification & fixing Hardware issues) as DCS ENGINEER during start-up activities for whole project systems
- Providing assistance (Logic simulation & Logic / Graphic modification & fixing Hardware issues) as DCS ENGINEER during Commissioning activities .
- Rectify all official DCS comments (Logic/Graphic modifications requests & punch items)

Training Courses:

1- Intensive course on computer skills, including **Microsoft Office and Visual Basic** level I, level II.

2- **PLC** (Programmable Logic Control) Course levels 1 & 2..... with its certificates from " **Energy & Electricity Ministry of Egypt** "

3- Project Management Professional **(PMP)** course with its certificate from " **Brilliance Business School " .**

4- **D**iploma of **OSHA** standards from " **Arab Association of Safety and Health Professionals and Experts** " :

a) general industry
b) general construction
c) platenuim certificate

→ with its certificates + its IDs

5 - Training course of **Symphony Harmony infi90 ABB DCS** (hardware , software) + power generation portable **(PGP4.1)** .

Job Role:

- I&C Consultancy services (construction/commissioning)…starting from (10 Feb 2015) till (Nov 2020)
- I&C Maintenance …during all my permanent job (around 10 years experience)
- I&C Construction ……. (around Two years experience)
- I&C Commissioning…… (around 5 years experience)
- I&C Engineering services : reviewing drawings & Documents (P&ID , Hook up drawings, wiring diagrams , layout drawings , logic diagrams and contract specification) & checking modifications DCNs, FCNs for approval……. (its experience period is included in previous roles periods)

Gained Experiences via History of employment

Good experience in many control systems as BMS*, DCS*,DLS*, PLC*, TSI*,ESD* responsible for maintain & troubleshooting & good experience in control system ABB(Network-90) , ABB(Symphony Infi90) , GE Mark VIE , OIS Software (VMS) , ABB Composer Software(v4.0 ,v4.1,v4.2 ,v4.3, V5.1) ,Yokogawa Centum , Mitsubishi DIASYS-Netmation , PLC and graphic software ABB Conduct , ABB PGP 4.1 and GE Cimplicity 8.4 .

Alpha Station & good experience in fire fighting and fire alarm systems.

Field instrument Calibrate, test, maintain for different field instrumentation such as vibration sensors, differential expansion, absolute expansion, thrust bearing wear detector, temperature sensors, flow transmitters, level transmitters, pressure transmitters, level controller, temperature controller, pneumatic valves (control & On/Off) and motorized valves.

Instruments

1- Pressure, differential pressure transmitters by Hartmann & Braun , ABB , Honywell , Emerson ,Rosemount , Siemens (Germany),VEGABAR , Foxboro
2- Level-temperature-flow (transmitters) Hartmann & Braun , ABB , Honywell , Emerson and Rosemount , Siemens (Germany) ,VEGABAR , Foxboro
3- Thermocouple- R.T.D.
4- Oxygen and carbon monoxide analyzer (Westing house, Honywell).
5- Flame detection systems (Bailey, FIREYE)
6- Motorized valves : AUMA , Parcol ,BIFFI , Rotork , and Drehmo
7- Pneumatic valves : Fisher , Emerson , Koso
8- Pneumatic pressure & temperature controllers: Ametic (USA).
9- Smoke detectors (ionization/photoelectric smoke detectors) : Honeywell, Zenner , Edward EST3
10- Heat detectors (fixed temperature/ ROR) : Honeywell , Edward EST3
11- CONTROL SYSTEM :

1. DCS (N90) (Distributed control system) made by Elsage Bailey and Hartmann& Braun .
2. DCS (Symphony Infi90) (Distributed control system) made by ABB .
3. DCS (Mark VIe) made by GE .
4. DCS Yokogawa Centum
5. Mitsubishi DIASYS-Netmation
6. PLC (programmable logic control) : simatic (Siemens), logix5000(Allan Bradully) and Trust PLC

EHC (Electro Hydraulic Control)

1- Motorized valves : Biffy (Italy)., Auma , Rotork , Drehmo
2- Pneumatic valves : Fisher , Emerson , Koso .
3- **Control system (E.H.C) for Steam Turbine :**

- **Analoge (E.H.C)** by Elsage Bailey co. which includes different control loops such as: speed control unit, load control unit and flow control unit which which gives a current signal to servo valves.
- **DEHC GE** which includes different control loops such as: speed control unit, load control unit and flow control unit which gives a current signal to servo valves.
- **DEHC ABB** which includes different control loops such as: speed control unit, load control unit and flow control unit which gives a current signal to servo valves.

4- Thermo couple: Pitco (type K- Italy), (type E-honywell)
5- R.T.D.: PT 100 Pitco-Italy.
6- Temperature transmitters: Hartmann & Braun., Honywell , Emerson , ABB , Yokogawa, Siemens.
7- Flow transmitters : Hartmann & Braun , Honywell , Emerson , ABB ,Yokogawa Siemens.
8- On/Off valves (pneumatic) : Parcol (Italy). , Fisher , Emerson
9- On/Off valves (motorized) : Rotork (England), Drehmo, Biffi
10- Hydraulic Control valves: STI (Italy), GE and Ansaldo Energia .
11- Pneumatic pressure and temperature controllers: Ametic (USA).

TSI (Turbine Supervisory Instruments)

Bentley Nevada system :

Vibration sensors , Differential expansion , Absolute expansion ,Thrust bearing Wear detectors ,Key phasor sensor ,Speed sensors and Rotor axial position instruments.

Personal Information

1- Date of Birth : 4, Feb, 1980
2- Marital Status : Married
3- Nationality : Egyptian
4- Military Service : Exempted