

Khaled Mohammed Shaaban

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COMMISSIONING & MAINTENANCE I&C ENGINEER

FOR POWERE PROJECTS "SIMPLE,STEAM&COMBINED POWER PLANTS"

OBJECTIVE

- To employed in a multinational company to improve my engineering skills.
- To contribute to the success of the company as best as I can.

PERSONAL DETAILS

Date of birth : 30 /5/1979
Nationality : Egyptian
Military Service Status: Exempted
Marital Status : Married
Religion : Muslim
Driving license : valid

EDUCATION

1996-2001

B. SC. OF ELECTRONIC & COMMUNICATION ENGINEERING, JUNE 2001
FACULTY OF ENGINEERING, MANSOURA UNIVERSITY.

Graduation Grade : (very good).

Overall grade : (good).

GRADUATION PROJECT

Digital Communication & GSM system.

Grade : (Excellent).

Summary of Graduation Project :

PSTN Structure, Local Loop, Transmission systems PDH &SDH, Fiber Optical, GSM SYSTEMS.

TRAINING COURSES

[29/3/2014 to 29/4/2014]

❖ Honeywell Experion process knowledge system

PKS GIZA systems company

[23/11/2013 to 28/11/2013]

❖ Maintenance of measuring & control instruments

Middle Delta Electricity Production Company

TALKHA Power Plant 2X210 MW

[9/11/2013 to 14/11/2013]

❖ Civil defense & fire fighting

Civil Protection Department

Security Directorate DAKAHLIA

[8/6/2013 to 13/6/2013]

❖ **Turbine supervision instruments**

Middle Delta Electricity Production Company

TALKHA Power Plant 2X210 MW

[30/8/ 2003 to 4/9/ 2003]

❖ **Protection and control in Boilers**

Observing Boilers Protection systems and the control of Boilers operation.

East Delta Electricity Production Company,

OYUON MOSSA Power Plant (2X320 MW)

[5/4/ 2003 to 10/4/ 2003]

❖ **Operating of Steam turbine**

Observing Steam turbine operation.

East Delta Electricity Production Company,

OYUON MOSSA Power Plant (2X320 MW)

[15/8/ 2000 to 12/9/ 2000]

❖ **PDH & SDH TRANSMISSION SYSTEMS**

Observing transmission systems including creating ring connection between a numbers of main Exchanges "MANSOURA RING A, MANSOURA RING B ".

ALCATEL (EGYPT)

[15/7/ 2000 to 15/8/ 2000]

❖ **(OCB 283 ALCATEL Exchange)**

Observing Exchange system operation including: “microwave systems, transmission systems, fiber optics, welding two fiber cables”.

TELECOM EGYPT

[1/7/ 1999 to 15/8/ 1999]

❖ **Maintenance of Electronic equipments.**

Design and manufacturing of electronic circuits and boards, Maintenance of color TV, cassettes, computers, etc.

MANSURA University

EXPERIENCE

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- Lead a team of engineers and technologists in project team.
 - Preparation of tag assignments, logic drawings shutdown keys & control narrative.
 - Reading and understanding engineering drawing and in particular p&ID and loop diagrams.
 - Experience of dealing with subcontractors and clients as required in field.
 - Understanding of steam, condensate and feed water level and flow measurement.
 - Experienced in testing and calibration of all instrumentation.
 - Experienced in loop checking instrumentation and electrical signals from field into the DCS .
 - Experience in valve commissioning.
 - Experience in functional and interlock test.
 - Work Experience in instrumentation commissioning.
 - Study and understanding the project specifications, procedures and contract

WORKING EXPERIENCE

[1/1/2013 – Till now]

Middle Delta Electricity Production Company, Egypt.

TALKHA Power Plant 2X210 MW

POSITION : SENIOR I&C ENGINEER

- Perform commissioning tests & function check for all Measurement and control devices" instruments "during SKODA turbine control retrofit for TALKHA power plant unit #1. "Emerson - ovation system "
 - Identifying and investigate the problems to troubleshoot.
 - Monitoring the behavior of all instruments with the Ovation system.
 - Troubleshooting internal and external fault in modules in OVATION system
- Supervising & Perform BMS retrofit for unit #1 "HONEYWELL EXPERION PKS R410 "
 - Perform FAT for Rehabilitation of TALKHA power plant unit 1 control system by *Invensys* company.
 - Supervising contraction and commission of Rehabilitation of TALKHA power plant unit 1 control system by *Invensys* company.
 - Install and connect all new instruments.
 - Perform continuity and loop check.
 - Calibrate all instruments.
 - Calibrate control valves .
 - Perform insulation test for old cable.
 - Perform function check for all systems .
 - Supporting *Invensys* team in tuning PID for control valves.
 - Perform daily report during construction and commissioning
 - Following up the schedule and try to achieve it.

[1/4/2011 – 30/12/2012]



[25/2/2012 - 1/12/2012]

KHARAFINATIONAL

❖ **WEST DAMITTA SIMPLE CYCLE GAS TURBINE 4x125 MW "GE-MARK VI 9E"**

POSITION : Commissioning I&C ENGINEER

- Commissioning and start-up of 4X125MW GE gas turbine.
 - Making loop check and function test.
 - Commissioning and start up of all GT systems(air processing unit – gas fuel – oil fuel – inlet guide vane – lube oil & hydraulic oil – closed cooling – inlet air filter –Flame detector-turbine & compressor water wash-water injection).
 - Calibration of all field instruments.
 - Calibration of supervisory instruments.
 - Calibration of inlet guide vane.
 - Commission and start up of fire protection system.
 - Calibration of all valves (pneumatic – motorized – hydraulic).
 - Responsible for the preparation, organizing and authorization of the required forms prior the execution of any activities under the custody and control of the Commissioning team.
 - Responsible for supporting commissioning team in the preparation and issuing the required authorization in a timely manner so as not to delay the schedule of daily activities .
 - Operation engineer during start up & reliability test.

[1/4/2011 – 22/2/2012]

❖ **AL-SHABAB SIMPLE CYCLE GAS TURBINE 8 X 125 MW "GE-MARK VI 9E "**

POSITION : Commissioning I&C ENGINEER

- Commissioning and start-up of 8X125MW GE gas turbine.
 - Making loop check and function test.
 - Commissioning and start up of all GT systems(air processing unit – gas fuel – oil fuel – inlet guide vane – lube oil & hydraulic oil – closed cooling – inlet air filter –Flame detector-turbine & compressor water wash-water injection).

- Calibration of all field Measurement and control devices.
- Calibration of supervisory instruments.
- Calibration of inlet guide vane of Gas turbine.
- Commission and start up of fire protection system.
- Calibration of all valves (pneumatic – motorized – hydraulic).

[28/10/2009 – 30/12/2010]



PGESCO

CAIRO ELECTRICITY PRODUCTION COMPANY
EL TEBBEN 2X350 MW TPP

POSITION : Commissioning Engineer .

- Supervising and coordinating between contractors during start up and operation of the units.
- Monitoring all contractors activities involve with start up and operation and push them to achieve plant schedule.
- On job training and supervise owner shift engineers.
- Identifying and investigate the problems to troubleshoot.
- Permit to work for work orders and precede LOTO to facilitate the isolation. Of equipments for maintenance.
- Following up operation schedule and try to achieve it.

[1/10/ 2008 – 30/9/2009]



ENERGY
Heat Recovery System:

[1/9/ 2009 – 30/9/2009]

NEW TALKHA POWER STATION 750 MW COMBINED CYCLE

POSITION: Commissioning And Start Up Engineer.

- Monitoring and operating of the plant Equipments from the local.
- Reach Normal Points of the normal operation of all plant .
- Calibration of all field instruments.
- Calibration of supervisory instruments.
- Calibration of all valves (pneumatic – motorized – hydraulic).
- Troubleshooting for any problem that appears during tests.
- Monitoring the behavior of all instruments with the Ovation system; start up& preparation. Calibration of all field instruments.

[1/10/ 2008 – 30/12/2008]

ELKURIMAT 2 POWER STATION 750 MW COMBINED CYCLE

POSITION: Commissioning And Start Up Engineer.

- Commissioning and start-up of HRSG .
- Calibration of all field instruments.
- Calibration of supervisory instruments.
- Calibration of all valves (pneumatic – motorized – hydraulic).
- Reach Normal Points of the normal operation of all plant
- Troubleshooting for any problem that appears during tests.
- Monitoring the behavior of all instruments with the Ovation system; start up& preparation.

[1/6/2008 – 30/9/2008]

SKODA PRAHA

ELKURIMAT 2 POWER STATION 750 MW COMBINED CYCLE

POSITION : Commissioning And Start Up Engineer.

- Monitoring and operating of the plant Equipments from the local.
- Reach Normal Points of the normal operation of all plant .
- Calibration of all field instruments.
- Calibration of supervisory instruments.

- Calibration of all valves (pneumatic – motorized – hydraulic).
 - Troubleshooting for any problem that appears during tests.
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Monitoring the behavior of all instruments with the Ovation system ; start up& preparation(steam blow, bypass operation , reliability test)

- Familiar to make energize for any (motorized, pneumatic) valves from MCC.
- Troubleshooting internal and external fault in modules in DCS (OVATION system)

[1/1/2008 - 30/5/2008]



NEW TALKHA POWER STATION 750 MW COMBINED CYCLE

POSITION : Commissioning And Start Up Engineer.

- Commissioning and start-up of HRSG .
- Calibration of all field instruments.
- Calibration of supervisory instruments.
- Calibration of all valves (pneumatic – motorized – hydraulic).
- Reach Normal Points of the normal operation of all plant
- Troubleshooting for any problem that appears during tests.
- Monitoring the behavior of all instruments with the Ovation system; start up& preparation.

[23/3/2002 – 30/12/2007]

East Delta Electricity Production Company, Egypt.

[13/3/2004 – 20/9/2007]

❖ TALKHA Power Plant 2X210 MW

POSITION : I&C MAINTENANCE ENGINEER

- Calibration of all instruments in field (pressure transmitters& switches-level transmitters & Switches-thermocouples-smart valves).
- Troubleshooting for any problem with DCS during unit operation.
- Perform maintenance for all plant instruments.
- Perform maintenance and recalibration of all valves (pneumatic – motorized – hydraulic).
- Perform Switchgear operation with national Control Center to connect and disconnect 220KV unified grid functions.

[23/3/ 2002 to 13/3/ 2004]

❖ OYUON MOSSA Power Plant 2X320 MW

(BAILEY DCS control system)

POSITION : I&C MAINTENANCE ENGINEER

- Calibration of all instruments in field (pressure transmitters& switches-level transmitters & Switches-thermocouples-smart valves).
 - Troubleshooting for any problem with DCS during unit operation.
 - Perform maintenance for all plant instruments.
 - Perform maintenance and recalibration of all valves (pneumatic – motorized – hydraulic).
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COMPUTER SKILLS

- PCs assembly & maintenance.
- Office 2007.
- Visual Basic.
- Control strategy implementation.
- HMI Web display builder.

LANGUAGE SKILLS

- Native language : Arabic
- First language : English Grade : Very Good
- Some French

