



Instrumentation and control engineer

Ashraf Fathy Ali

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PERSONAL PROFILE

An Instrumentation and Control Engineer with expertise in precise operations, teamwork, and budget-efficient project execution.

AREAS OF EXPERTISE

- Hands-on maintaining automated control systems.
 - Configuration and calibrating instruments experience
 - Hardware and software integration.
 - Risk assessment and safety improvement.
 - Technical training and team development.
 - System upgrades and troubleshooting.
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- Working knowledge of PLC, DCS,

OTHER SKILLS

- The ability to analyze complex technical information
- Can analyze, design and Implement database structures
- Detail oriented
- Excellent problem solver

WORK EXPERIENCE

Instrumentation and Control Engineer

- In-depth knowledge of calibration principles and practices.
- Reinstall, test, evaluate, calibrate and maintain instruments or devices upon completion of repairs.
- Troubleshoot plant equipment and systems.
- Strong experience in all areas of instrumentation and control engineering.
- Extensive familiarity with field specifications and instruments.
- Maintaining pneumatic, hydraulics actuators of shutdown, and blow-down valves.
- Maintaining and calibration of all Control Valves (Samson, Fisher ...), I/P Converter, positioners.
- Installing, Commissioning, and performed hot and cold loop check of all Field instruments.
- Performing troubleshooting and check for all process control system DCS and ESD.
- Check and tracking signal on control logic of different control systems.
- Good idea about running and maintaining oil and steam boiler

Shift Engineer

- Participate in construction, commissioning and startup of SIEMENS V94.3A gas turbine.
- Operation of 2 x 250MW SIEMENS V94.3A gas turbine Teleperm XP and TS 3000 control systems and associated Auxiliary DCS.
- Operation of 2 x 250MW CMI. Two HRSGs Ovation.
- Operation of 250MW ALSTOM -P320 TGC-SV2 steam turbine generator control systems and associated Auxiliary DCS.
- Monitoring the operation of power generating units to ensure reliable and efficient power generation and to detect evidence of operating problems.

List of courses I have conducted as a trainer at Talkha Power Station

- Instrumentation and control course.
 - Seminar on solar energy.
 - Seminar on green hydrogen
 - Seminar on alternative energy
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EDUCATION HISTORY

El Mansoura University

Bachelor of Electronics Engineering (Electronics & Communications), 2006.

• Master of Science in Engineering (Environmental Engineering Management & Technology) on 2016.

• PhD student (Department of Electrical Engineering) now.