

Muhannad Marwan Hisham

Instrument and control Engineer

- Location: Erbil, Iraq
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Objective:

Dedicated and results-driven Engineer with a solid background in Electronics Engineering, specializing in Instrumentation and Control. Seeking a challenging position where my skills in project management, calibration expertise, and hands-on experience in power station operations can contribute to the growth and success of a dynamic organization. Committed to leveraging my technical proficiency and innovative mindset to tackle complex challenges and drive continuous improvement.

Education:

Bachelor of Electronics Engineering, University of Nineveh, 2021.

Languages:

- Fluent in English.
- Native Arabic speaker.
- Basic proficiency in French.

Personal Skills:

- Effective team management.
- Efficient time management.
- Strong problem-solving skills.
- Excellent communication skills.
- Proven ability to work collaboratively in a team.
- Thrives in high-pressure work environments.

About Plant:

Besmaya Gas Power Plant (4500) MW.

4500 MW combined cycle power plant with 12 GE 9FA gas turbines, 6 GE C7 steam turbines, and 12 CMI HRSG with Speed Tronic's MARK Vie, MARK Vies, Siemens S7-400, and Emerson Ovation DCS control systems.

Work Experience :

Mass Group Holding (BGPS)

Control Room Operator (2021 _2022):

- Execute process control and oversee plant operations.
- Operate Stacker and Conveyor, troubleshooting issues during operation.
- Monitor SCADA parameters, identify deviations, and propose corrective actions.
- Operate switches, control devices, and valves, understanding their impact on overall plant operations.
- Ensure equipment availability, minimize downtime, and prioritize safety.
- Proficient in PTW system, issuing work permits through LOTO, and conducting toolbox talks.
- Maintain shift-wise log book, permit register, defect register, and equipment running hours.
- Analyze system downtime, manage belt utilization targets, and enhance productivity.
- Extract reports (Trends, Alarms, Interlock Bypass) from DCS + PLC system and share with Plant Manager.
- Prepare shift/day plant performance reports.
- Conduct Root Cause Analysis (RCA) reports for breakdowns and operational issues.

Instrument Engineer(2022_Present):

- Design and implement control strategies for gas turbines, steam turbines, and balance of plant systems.
- Perform routine maintenance activities and provide daily progress reports.
- Manage tripping and breakdown activities during Operation and Shutdown Processes.

- Conduct calibration and maintenance of instrumentation for optimal performance.
- Conduct routine inspections and audits to ensure safety compliance.
- Prepare root cause analysis reports for instrument and control failures.
- Collaborate with cross-functional teams to troubleshoot and resolve technical issues.
- Implement safety instrumented systems (SIS) to enhance plant safety and regulatory compliance.

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Project:

- Developed a Smart Solar Car controlled via wireless technology for the graduation project, showcased at the Hi-Tex Technology Exhibition in Erbil.

Certifications and Training:

- SCADA Design.
- Industrial Sensors.
- FME Certificate from General Electric.

Calibration Expertise:

- Calibration of hydrogen level sensors.
- Calibration of pressure transmitters.
- Calibration of tank level sensors.
- Calibration and maintenance of dual-temperature sensors.

Maintenance and Outage Experience:

- Participated twice in the maintenance outage of the power station with General Electric.

Project Management Certification:

- Obtained a certificate in Project Porter Strategy for Small Projects from the Arab Institute for Studies in Kuwait.