

ALAA FOUAD AJLAN

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SUMMARY STATEMENT

Dedicated Instrumentation and Control Maintenance Engineer with over a decade of experience at KALDA Petroleum Company, specializing in industrial instrumentation maintenance, wellhead control panel operations, and gas plant machinery troubleshooting. Proficient in advanced process control, supervisory control and data acquisition (SCADA), distributed control systems (DCS), and programming of programmable logic controllers (PLC) with expertise in Schneider, Allen Bradley RSLogix 5000, and FactoryTalk software, as well as GE 9030, 9070, and Simplicity ME. Adept in the industrial automation field, with a strong foundation in programming and a commitment to implementing cutting-edge solutions to enhance system reliability and operational efficiency. Proven leader in managing critical shutdowns and commissioning projects, significantly improving operational timelines and efficiency. Eager to bring a track record of success in optimizing complex control systems and automation projects to a forward-thinking organization where continuous improvement is valued and advanced technology is embraced.

Multi-faceted Professional with expertise in:

Instrumentation - Control Systems - Maintenance Engineering - PLC (Programmable Logic Controllers) - SCADA (Supervisory Control and Data Acquisition) - DCS (Distributed Control Systems) – Calibration – Troubleshooting - Preventive Maintenance - Corrective Maintenance - Electrical Engineering - P&ID (Piping and Instrumentation Diagrams) - Process Control - Safety Systems - Sensors and Transducers – Actuators - PID (Proportional-Integral-Derivative) Control – Automation - Field Instruments - Signal Conditioning - Data Acquisition - Loop Checking - System Integration - Reliability Engineering - Industrial Networking – Modbus - Valve Positioners - Flow Meters - Pressure Transmitters - Temperature Control - Vibration Analysis – Commissioning - SIS (Safety Instrumented Systems) - Alarm Management - Project Management - RCA (Root Cause Analysis) – CMRP (Certifies Maintenance and Reliability Professional) – TPM (Total Productive Maintenance) – CBM (Condition Based Maintenance) – KPI (Key Performance Indicators) - CMMS (Computerized Maintenance Management Systems) – Risk Assessment & Management

EXPERIENCE

Instrumentation Engineer

Mar 2010 - Present

KALDA Petroleum Company

Value added:

Industrial Instrumentation Maintenance

- Perform calibration and maintenance of PCS/ESD/F&G instrumentation, ensuring accurate physical variable measurements, including level, pressure, temperature, flow, and machinery vibration, across various measurement strategies and device families.
- Maintain and troubleshoot Fire and Gas detection equipment, including search point detectors, open path systems, flame and smoke detectors, particularly specializing in Det-Tronics and Honeywell devices.
- Oversee the regular maintenance and operational integrity of several Fire and Gas systems, applying expertise across all serviced sites.
- Manage the maintenance and troubleshooting of compressed air-operated emergency valves, including blow-down and shut-down valves, ensuring their reliability and readiness for emergency responses.

Well Head Control Panels Maintenance, Troubleshooting and Operation

- Conduct comprehensive maintenance and operational checks on various Wellhead Control Panels (WHCP) and associated gas well Christmas tree instruments to ensure optimal functionality and safety standards are met.
- Manage the WHCP control systems by regularly monitoring, diagnosing, and calibrating instruments to maintain accurate control over wellhead operations.

- Utilize extensive experience in troubleshooting WHCP hydraulic systems to identify and resolve complex issues, minimizing downtime and enhancing system reliability.
- Implement strategic maintenance plans for WHCP hydraulic systems, ensuring long-term operational efficiency and adherence to industry best practices.

Gas Plant Machinery Operation and Troubleshooting

- Expertly troubleshoot and operate gas plant units, including heaters, centrifugal and reciprocating compressors, re-boilers, filtering and removal units, and condensate export pumps, ensuring high uptime and operational continuity.
- Perform specialized maintenance and service on power generation units, including engine swaps and instrumentation servicing for Solar Turbines models such as MARS100, CENTAUR 40, and TAURUS60, as well as a variety of diesel generators.
- Demonstrate proficient commissioning skills, having participated in the startup of two facilities in the past three years, including the Qasr PH2 commissioning and Akik gas plant commissioning, as well as the pre-commissioning of 40 Wellhead Control Panels for Khalda Petroleum Company.
- Provide dedicated service and operational support for three years at the Northern Pipeline Compression Station (NPCS), contributing to the station's performance and efficiency.

Shutdowns

- Successfully managed the total shutdown of Salam Gas Plant Trains 1 & 2 in December 2011, ensuring a smooth and efficient process without compromising safety or operational standards.
- Led the total shutdown of Salam Gas Plant Trains 3 & 4 in March 2012, initially planned for 14 days but effectively reduced to 9 days through meticulous planning and execution, demonstrating exceptional project management and time-saving strategies.
- Orchestrated numerous partial shutdowns across various operations, not only working effectively under high-pressure conditions but also significantly reducing plant downtime. Achieved 100% completion of activities, showcasing strong organizational skills and a commitment to operational efficiency.
- Directed the GIZA/FAYOUM Refurbishment project for RASHPETCO under the supervision of BECHTEL Engineering. The project was scheduled for a 5-month duration; however, through proactive leadership and efficient resource management, the task was completed in just three months and one week, significantly ahead of schedule and exemplifying outstanding project acceleration capabilities.

Firmware (Microcontrollers) Engineer Development Group Egypt Co.

Feb 2009 – Mar 2010

Development Group Egypt Co

EDUCATION

Bachelor's degree of Industrial Electronics and Control Engineering,

Menoufia University

2008

Graduation Project in "Advanced Automation Systems Applied to Industrial Processes", Grade "Excellent"

CERTIFICATED & COURSES

CRMP (Certified Maintenance & Reliability Professional) In Progress

Allen Bradley PLC, HMI, SCADA and Communication “Certified”

LANGUAGES

- Arabic: Mother Tongue
- English: Professional