ABDALMALEK SLAMAN

Instrumentation Engineer | Project Engineering | Commissioning | Maintenance & Reliability

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PROFESSIONAL SUMMARY

Instrumentation Engineer with 7+ years of engineering experience, primarily in mining and mineral processing. Specialized in industrial instrumentation, process measurement, instrumentation engineering and design, commissioning, and maintenance reliability. Experienced in technical specification development, vendor technical evaluation, equipment modernization, shutdown planning, and project execution. Proven ability to coordinate technical teams, supervise subcontractors, and deliver complex instrumentation projects within demanding schedules.

PROFESSIONAL EXPERIENCE

Arab Potash Company (APC) — Jordan

Junior Instrument Engineer | June 2025 – Present

- Coordinate 15 instrumentation technicians across five operational facilities, overseeing preventive, corrective, and emergency maintenance, troubleshooting, resource allocation, and shutdown planning.
- Lead instrumentation engineering activities, including instrument selection, technical specifications, datasheets, engineering drawings, equipment modifications, and vendor technical evaluations.
- Led instrumentation execution for the main burner Heavy Fuel Oil (HFO) skid and Burner Management System (BMS) modernization, completing the project on schedule within a 10-day shutdown.
- Coordinated four internal employees and approximately 15 subcontractor personnel, overseeing installation, testing, commissioning, and handover involving 50+ field instruments and 100+ cables.
- Led instrumentation modernization of three thickener rake drive systems within a five-day shutdown, coordinating parallel installation teams, Site Acceptance Testing (SAT), commissioning, and safety interlock verification.
- Contribute to the CCP3 expansion project through instrumentation specifications and vendor technical evaluations for rotary dryers, fluidized bed coolers, centrifuges, control valves, and flowmeters.
- Develop engineering modifications, scopes of work, job packages, instrument lists, cable schedules, termination drawings, and execution timelines to improve equipment reliability and operational performance.

Instrument Engineer — Caliber Trainee | May 2022 – May 2025

- Led instrumentation commissioning and optimization activities for the Bagging and Loading Facility, enabling achievement of design capacities of 60 one-ton bags and over 1,000 25-kg bags per hour.
- Planned and supervised engineering modifications to resolve recurring equipment failures across four automated container loading trains.
- Proposed a pivot-based lifting mechanism to address synchronization-related mechanical failures and redesigned lifting position sensor arrangements using fail-safe principles.
- Developed and implemented a bag filter temperature monitoring system with real-time process measurement and alarm integration.
- Executed field instrumentation installation, calibration, troubleshooting, maintenance, and commissioning of industrial process equipment, including PAYPER and Haver & Boecker Niagara systems.

PROFESSIONAL EXPERIENCE (CONTINUED)

Jordan Phosphate Mines Company (JPMC) — Jordan

Electrical & Control Engineer | August 2020 – May 2022

- Supervised contractor execution of a plant-wide Siemens SIMATIC S5 to S7-1500 PLC modernization project across four areas of the Beneficiation Plant.
- Verified and approved field instrumentation signals, industrial communications, equipment functionality, and safety interlocks during commissioning.
- Performed preventive and corrective maintenance of electrical, instrumentation, and control equipment, including variable frequency drives (VFDs), soft starters, and motor control systems.

UNIVAL-JO — Jordan

Service Engineer | April 2020 – August 2020

- Supported technical consultancy, field services, and equipment upgrade activities for pharmaceutical manufacturing facilities.

Arab Centre for Pharmaceutical and Chemical Industries (ACPC) — Jordan

Electrical & Instrumentation Engineer | November 2018 – June 2019

- Maintained, calibrated, and troubleshot electrical and instrumentation systems for pharmaceutical capsule manufacturing equipment.
- Supported installation and commissioning of two capsule production machines.

TECHNICAL COMPETENCIES

Process Instrumentation: Pressure and differential pressure transmitters, RTDs, thermocouples, electromagnetic, Coriolis and ultrasonic flowmeters, radar and ultrasonic level transmitters, load cells, belt scales, and weigh feeders.

Final Control Elements: Pneumatic control valves, valve positioners, electric and hydraulic actuators, solenoid valves, pneumatic systems, on/off valves, dampers, and position feedback devices.

Engineering & Design: Instrument selection, technical specifications, instrument datasheets, P&IDs, instrument indexes, I/O lists, loop diagrams, hook-up drawings, cable schedules, junction box drawings, and vendor technical evaluations.

Calibration & Commissioning: HART communication, instrument calibration, flowmeter verification, weighing system calibration, loop checking, SAT, functional testing, interlock verification, and fault diagnosis.

Maintenance & Project Leadership: Preventive and corrective maintenance, Root Cause Analysis (RCA), shutdown planning, equipment modernization, scope of work development, project scheduling, contractor supervision, resource planning, and operational handover.

Complementary Systems: Burner Management Systems (BMS), Siemens SIMATIC PLCs, TIA Portal, ABB System 800xA DCS familiarity, SCADA/HMI, PROFIBUS, PROFINET, Modbus, VFDs, and soft starters.

Equipment Manufacturers: Endress+Hauser, Emerson Rosemount, Micro Motion, VEGA, Siemens, Yokogawa, ABB, WIKA, SICK, ifm, Foxboro, Fisher, Biffi, Bettis, Festo, Parker, METTLER TOLEDO, Schenck Process, and Famdra.

Diagnostic Tools & Software: Emerson AMS Trex, Fluke, Beamex, HIOKI, Microsoft Excel, and Microsoft Project.

EDUCATION

Bachelor's Degree in Mechatronics Engineering | Tafila Technical University, Jordan | 2014–2018
Academic Grade: Very Good

PROFESSIONAL DEVELOPMENT

Endress+Hauser — Customer Seminar for the Chemical Industry | Switzerland & Germany | 2026

Anwar AlOlama Academy — Professional Training | Courses accredited by the Jordanian Ministry of Labour: Motion Control (Servo Motor Control); Advanced PLC & Industrial Networks; SCAD (Runtime) & HMI; Industrial Control.

PROFESSIONAL MEMBERSHIP & LANGUAGES

Jordan Engineers Association (JEA) | Arabic — Native | English — Advanced