**INSTRUMENTATION ENGINEER**



**BECHAR Nasreddine**

Skikda 21000 ALGERIA

MARIED + 3

Mob/WhatsApp : +213 661 761 791

[bechar.nasreddine@gmail.com](mailto:bechar.nasreddine@gmail.com) / [nasro\_ing@hotmail.com](mailto:nasro_ing@hotmail.com)

[linkedin.com/in/nasreddine-bechar-51027a1a](https://www.linkedin.com/in/nasreddine-bechar-51027a1a)

**03-08-1977**

**PROESSIONAL SUMMARY\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Instrumentation Engineer with over 18 years of experience in the oil and gas industry, skilled in all project phases including engineering, construction, pre-commissioning, commissioning, start-up, and maintenance. Experienced as a supervisor, QC inspector, and methods engineer. Proven ability to collaborate with multidisciplinary teams while ensuring compliance with international standards (API, IEC, ISA, ATEX, SIL). Strong expertise in troubleshooting and problem solving to support project success.

**PROFESSIONAL EXPERIENCE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**August 2023-UNTIL NOW: Senior Instrument Engineer Methods.**

* **PROJECT: SONATRACH / ENI GROUP CTH BRN HASSI MESSAOUD ALGERIA**
* **COMPANY: SONATRACH / ENI GROUP**
* **Scope of Work:**
* Establishment and Improvement of Preventive Maintenance Plans and Procedures.
* Preparation of Technical Files for Major Maintenance Work.
* Utilization of Maintenance Feedback.
* Assessment and Management of Spare Parts.
* Maintenance Outsourcing.
* Coordinate with service providers for planning, quality control, and conformity of service work.
* Assistance in Troubleshooting and Problem Identification.
* Modification and Improvement Studies.
* Technical studies of suppliers' offers and technical assistance upon receipt of the delivered spare part.
* Commissioning of New Installations.
* Management of Technical Documentation.
* Optimization of Spare Parts Management.
* Support Planning and Method Staff.

**Mai-June 2023: SCADA ENGINEER**

* **PROJECT: *EPC FO/SCADA/INSTRUMENTATION OF THE PIPELINE UNITES OF LR1/DLR1 SONATRACH TRC***
* **COMPANY: PARIFEX**
* ***Scope* of Work:** Carry out SCADA RTU SAT test, and SAT SOLAR PHOTOVOLTAIC ENERGY TEST
* Visual inspection of the instruments, RTU cabinets, junctions’ box, photovoltaic panels, MORNINGSTAR Relalydriver, TriStar CONTROLLER, and Batteries.

Power ON RTU cabinets, PV energy panels, Batteries, instruments, workstation, monitoring, servers, printers.

* BATTERY LIFE AUTONOMY TEST
* REDUNDANCY and FUNCTIONALITY CHECKS TEST of RTU, Server, station.
* COMMUNICATION FAILURE TEST of RTU, Server, station, switch.
* RTU I/O CHECK TEST.
* PERFORMANCE TEST OF SCADA SYSTEM.
* Systems Integration Honeywell experion, ControlEdge RTU 2020
* Trouble shooting (repair or replace instrument damaged and card electronic, relays, ControlEdge RTU 2020 honeywell moduls …etc.

**October2022-March2023: Instrument Supervisor Commissioning**

* **COMPANY: L&T HYDROCARBON ENGINEERING**
* **PROJECT: *SOUTH WEST GAS FIELDS DEVELOPMENT PROJECT GAS TREATMENT UNIT (EPC2- PHASE1) HBH TIMIMOUNE***
* ***Scope* of Work:** Carry out pre-commissioning and commissioning activities, accountable for witnessing Loop Checking & Functional Tests, and performance test for DCS, ESD, FGS system according to cause and effet matrix, and process contrôle narrative.
* Instruments manual calibration or with communicator HART for all types of the transmitters and switch "flow, pressure, level, temperature, vibration...etc." and fire & gas detectors.
* PRV (pressure relief valve), PSV (pressure safety valve), PCV (pressure control valve)
* Control valves/ON-OFF valves/ MOV, BDV, ESDV (re-calibration of I/P convertors and simulate the signal and check the valve and adjust stem/limit switch position and record stroking time).
* Trouble shooting (replace instrument damaged and card electronic, relays…etc.

**June-September2022: Instrument Supervisor Commissioning**

* **COMPANY: ENERECO SPA */* SH/BP/EQUINOR**
* **PROJECT: REG 2nd Stage Compression ALGERIA**
* ***Scope* of Work:** Carry out pre-commissioning and commissioning activities, accountable for witnessing Loop Checking & Functional Tests, and performance test for DCS, ESD, FGS system.
* ****Instruments manual calibration or with communicator HART for all types of the transmitters and switch "flow, pressure, level, temperature, vibration...etc." and fire & gas detectors.
* PRV (pressure relief valve), PSV (pressure safety valve), PCV (pressure control valve)
* Control valves/ON-OFF valves/ MOV, BDV, ESDV (re-calibration of I/P convertors and simulate the signal and check the valve and adjust stem/limit switch position and record stroking time).
* Trouble shooting (replace instrument damaged and card electronic, relays…etc.

**May 2021-january2022: DCS Panel Operator**

* **COMPANY: JGC CORPORATION ALGERIA**
* **PROJECT: GAS OIL SEPARATION PLANT Hassi Messaoud Upside North Algeria.**
* ***Scope* of Work:** Operate the processing plant from the control room and perform process adjustments to ensure optimum

outputs and quality (DCS SYSTEM: YOKOGAWA CENTUM VP / ESD & FGS: YOKOGAWA PROSAFE RS / OTHER: SIEMENS S7 400).

JGC浸透策用ロゴタイプ_英Assisting commissioning startup and maintenance team for loop test function & performance test and troubleshooting of:

* Potable Water Package
* Air compressor / Air Dryer Package / Diesel Elec Driven Compressor
* Nitrogen compressor and Generation Package
* Domestic Waste Water Treatment Package
* CHEMICAL INJECTION PACKAGE
* Common Flare KO Drum Heater
* Fire Water Pumps/ Centrifugal PUMPS
* EMERGENCY POWER GENERATOR
* FLASH GAS COMPRESSORS
* hydrocarbon 2 and 3 phase separator vessel

JGC浸透策用ロゴタイプ_英**May 2019-April2021: (E&I and T) QC Inspector**

* **COMPANY: JGC CORPORATION ALGERIA**
* **PROJECT: Hassi Messaoud Upside North Algeria.**
* **Scope of Work:** • Attend all necessary inspections as identified in the approved Inspection and Test Plan (QCP and ITP) for ELECTRICAL & INSTRUMENT and TELECOM.
* Inspection materials receiving.
* Inspection cable way before /after cable pulling (Ladder, tray, conduit, pits, trench before / after backfilling).
* Inspection installation and cables connections on instruments, JB’s, local panels, motors, LCS, cabinets, electrical indoor panels, MV&LV switchgear/MCC, transformers.
* Continuity and insulation test instrument/control/ MV&LV power cables, motors, winding transformers
* Inspection lightning and grounding system, cathodic protection, heat tracing system, neutral grounding resistor, battery system / AC and DC UPS, lighting fixture with JB’s and accessories and sockets.
* High potential test,
* Dielectric test for insulation oil of transformer, MV switchgear/MCC, power capacitor,
* CT / VT test, motor no load run test, tan delta test of transformer, and illumination level measurement
* inspection instrument tubing installation and leak test, fittings connections, and tapping point installation according to Hook Up drawings.
* Inspection of calibration of PRV (pressure relief valve), PSV (pressure safety valve), PCV (pressure control valve)
* Inspection of all site acceptance tests conducting on site as per schedule and standards and approving check sheet of various components of Integrated Process Control & Safety Systems and electrical; DCS, ESD, UPS, Fire & Gas, MCMS, HVAC, Analyzer and Communication system cabinets & consoles.
* Inspection and accountable for witnessing instrument’s calibration in laboratory and field, Loop Checking & Functional Tests, and performance test for DCS, ESD, FGS system.
* Installation and test record of communication system (Installation of communication system equipment’s, PA/GA public address general alarm, CCTV closed circuit television, LAN local area network, entertainment, Voice recording, Microwave radio, Radio system, video conferencing system, Telephone, Meteorological system, Satellite terminals, SDH synchronous digital hierarchy, GPS master clock, Splicing and test of fibro optic cables, and special cables coaxial, communication…etc).
* Generate punch list items for the work deviation against standard installation practice.
* Competency to issue Non-conformance Reports with respect to electrical and instruments works to sub-contractor and/or Vendor Personal for rectification and/or back charge.
* Raising of TQ, TDR, MAS, SQ and other documentation as per client requirement.

**April 2017-May 2019 Instrumentation Supervisor**

* **COMPANY: CPECC China Petroleum Engineering & Construction**
* **PROJECT: ALGIERS REFINERY REHABILITATION AND ADAPTATION PROJECT** **in sidi arcine baraki algies Algeria.**
* **Scope of Work:** SUPERVISE INSTRUMENTATION WORK
* Fields instruments installation and Cables connections on instruments, JB’s, and cabinets.
* Continuity and insulation test of instrument cables.
* Installation of cable trays/ladders, conduits, pits, trench before / after backfilling primary & secondary grounding system
* tubing installation and leak test, fittings connections, and tapping point installation according to Hook Up drawings.
* Carry out instruments’ calibration and installation in laboratory and field, (manual calibration or with communicator HART for all types of the transmitters and switch "flow, pressure, level, temperature, vibration...etc." and fire & gas detectors), Control valves/ON-OFF valves/ MOV, (re-calibration of I/P convertors and simulate the signal and check the valve and adjust stem/limit switch position and record stroking time).
* Attend all SAT site acceptance tests conducting on site as per schedule and standards and approving check sheet of various components of Integrated Process Control & Safety Systems and electrical; DCS, ESD, UPS, Fire & Gas, MCMS, HVAC, Analyzer and Communication system cabinets & consoles.
* Carry out pre-commissioning and commissioning activities, accountable for witnessing Loop Checking & Functional Tests, and performance test for DCS, ESD, FGS system.
* Calibration of PRV (pressure relief valve), PSV (pressure safety valve), PCV (pressure control valve).
* Issue of Field Design Modification and Field Instructions (FI) to Construction and ensure that all Modified Contract Engineering Design Sheets are entered on original documents, (Checking all documentation of As-Built Drawings and Site modifications).
* Raising of TQ, TDR, MAS, SQ and other documentation as per client requirement.
* Verify, approve and close engineering Site Instructions (SI), Fill out non-conformity report in case of non-compliance with the project Quality Control Plan (QCP), Identify any document mistake or mismatch (data sheet, P&ID, ILD, cabinets drawings…etc.) and report to Engineering department for revision.
* Close punch list, non-conformity, and field observation where necessary and verify with client the proper closing of these comments.
* Troubleshooting (solving problems and punch list).

**July 2016-April 2017 E&I Supervisor**

* **COMPANY: DANIELI &C OFFICINE MECCANICHE SPA.DANIELI**
* **Project: Integrated steel plant ALGERIAN QATARI STEEL in BELLARA EL-MELIA JIJEL Algeria.**
* **Scope of Work:** Electrical & Instrumentation work
* Installation of cable trays/ladders, cable conduits and cable pits, primary & secondary grounding system
* Installation and cables connections on instruments, JB’s, local panels, motors, LCS, cabinets, electrical indoor panels, MV&LV switchgear/MCC, transformers.
* Continuity and insulation test instrument/control/ MV&LV power cables, motors, winding transformers
* Inspection lightning and grounding system with electrode and earth BAR, cathodic protection, heat tracing system, neutral grounding resistor, battery system / AC and DC UPS, lighting fixture with JB’s and accessories and sockets.
* High potential test,
* Dielectric test for insulation oil of transformer, MV switchgear/MCC, power capacitor,
* CT / VT test, SOLO RUN motor no load run test, tan delta test of transformer, and illumination level measurement
* Tubing installation and leak test, fittings connections, and tapping point installation according to Hook Up drawings.

Carry out instruments calibration and installation in laboratory and field.

* Motor Testing & Solo run (No load run) test (rotation and control command test" manual, remote, auto)
* Issue of Field Design Modification and Field Instructions (FI) to Construction and ensure that all Modified Contract Engineering Design Sheets are entered on original documents, (Checking all documentation of As-Built Drawings and Site modifications).
* Raising of TQ, TDR, MAS, SQ and other documentation as per client requirement.
* Generate punch list items for the work deviation against standard installation practice.
* Competency to issue Non-conformance Reports with respect to electrical and instruments works to sub-contractor and/or Vendor Personal for rectification and/or back charge.
* Troubleshooting (solving problems and punch list).

**April-July 2016 Instrument QC Inspector**

* **CPMPANY: DAEWOO E&C.**
* **PROJECT: CENTRAL AREA FIELD COMPLEX CAFC-HUILE & WELLS & MANIFOLDS FIELD of In MLE Illizi Algeria.**
* **Scope of Work:**
* Attend all necessary inspections as identified in the approved ITP & QCP related to Electrical & Instrumentation activities in CAFC-HUILE & WELLS & MANIFOLDS field.
* Carry out pre-commissioning and commissioning activities Loop Checking & Functional Tests, and performance test for ICSS-DCS, ESD, F&G, and SCADA systems.
* Generate punch list items for the work deviation against standard installation practice.
* Issue of Field Design Modification and Field Instructions (FI) to Construction and ensure that all Modified Contract Engineering Design Sheets are entered on original documents, (Checking all documentation of As-Built Drawings and Site modifications).
* Raising of TQ, TDR, MAS, SQ and other documentation as per client requirement.

**December2015-Marsh2016 E&I QC Engineer**

* **CPMPANY: PUIL Petrofac International (UAE) LLC.**
* **PROJECT: Repair and Commissioning of Train 3 CPF SONTRACH&BP&STATOIL Tiguentourine In Aminas Algeria).**
* **Scope of Work:**
* Attend all necessary inspections as identified in the approved ITP & QCP related to Electrical & Instrumentation activities.
* Carry out pre-commissioning and commissioning activities Loop Checking & Functional Tests, and performance test for ICSS-DCS, ESD, F&G, and SCADA systems.
* Generate punch list items for the work deviation against standard installation practice.
* Issue of Field Design Modification and Field Instructions (FI) to Construction and ensure that all Modified Contract Engineering Design Sheets are entered on original documents, (Checking all documentation of As-Built Drawings and Site modifications).
* Raising of TQ, TDR, MAS, SQ and other documentation as per client requirement.

**July2014-September2015: (E&I and T) QA/QC Engineer**

* **CPMPANY: PUIL Petrofac International (UAE) LLC on behalf of CSSI “Camp Support Services Integrated”**
* **Project: in Salah gas southern fields development CPF SONTRACH&BP&STATOIL HMN- In Salah Algeria).**
* **Scope of Work:** • Attend all necessary inspections as identified in the approved Inspection and Test Plan (ITP) for **ELECTRICAL & INSTRUMENT and TELECOM**.
* Inspection materials receiving.
* Inspection cable way before /after cable pulling (Ladder, tray, conduit, pits, trench before / after backfilling).
* Inspection installation and cables connections on instruments, JB’s, local panels, motors, LCS, cabinets, electrical indoor panels, MV&LV switchgear/MCC, transformers.
* Continuity and insulation test instrument/control/ MV&LV power cables, motors, winding transformers
* Inspection lightning and grounding system with electrode and earth BAR, cathodic protection, heat tracing system, neutral grounding resistor, battery system / AC and DC UPS, lighting fixture with jbs and accessories and sockets.
* High potential test,
* Dielectric test for insulation oil of transformer, MV switchgear/MCC, power capacitor,
* CT / VT test, SOLO RUN motor no load run test, tan delta test of transformer, and illumination level measurement
* inspection instrument tubing installation and leak test, fittings connections, and tapping point installation according to Hook Up drawings.
* Inspection of calibration of PRV (pressure relief valve), PSV (pressure safety valve), PCV (pressure control valve)
* Inspection of all site acceptance tests conducting on site as per schedule and standards and approving check sheet of various components of Integrated Process Control & Safety Systems and electrical; DCS, ESD, UPS, Fire & Gas, MCMS, HVAC, Analyzer and Communication system cabinets & consoles.
* Inspection and accountable for witnessing instrument’s calibration in laboratory and field, Loop Checking & Functional Tests, and performance test for DCS, ESD, FGS system.
* Installation and test record of communication system (Installation of communication system equipment’s, PA/GA public address general alarm, CCTV closed circuit television, LAN local area network, entertainment, Voice recording, Microwave radio, Radio system, video conferencing system, Telephone, Meteorological system, Satellite terminals, SDH synchronous digital hierarchy, GPS master clock, Splicing and test of fibro optic cables, and special cables coaxial, communication…etc).
* Generate punch list items for the work deviation against standard installation practice.
* Competency to issue Non-conformance Reports with respect to electrical and instruments works to sub-contractor and/or Vendor Personal for rectification and/or back charge.
* Raising of TQ, TDR, MAS, SQ and other documentation as per client requirement.

**April2012-July2014: QA/QC Engineer**

* **COMPANY**: **Saipem Contracting Algeria company**
* **PROJECT: New GNL-3Z Arzew Algeria.**
* **Scope of Work:** QA/QC ACTIVITIES “Preparation Mechanical Completion & ready for startup Package:
* Close coordination with various disciplines for target date of completion of different inspection and comments from COMPANY to avoid delay of final dossier issuance).
* Preparation of Status report for Construction, Commissioning.
* Coordination with subcontractor for the quality record (Inspection Test Record (ITR) and monitoring the updating of the Quality record.
* Organize and assist walkdown and site survey of system and sub-system.
* Coordination with Electrical, Instrumentation, Mechanical, piping & Civil discipline for the Latest drawing for system definition drawing and updating system component list and Communicating to the Client, Verify, approve and close engineering Site Instructions (SI), Fill out non conformity report in case of non-compliance with the project Quality Control Plan (QCP), Identify any document mistake or mismatch (data sheet, P&ID, ILD, cabinets drawings…etc.) and report to Engineering department for revision.
* Close punch list, non-conformity, and field observation form for each discipline where necessary and verify with client the proper closing of these comments.
* Submission of Mechanical Completion Dossier after completion Commissioning and start up certification.
* Perform automation inspections on ICS and SCADA systems:  
  -Honeywell system SAT for DCS, ESD & FGS, GTG system (Gas Turbine Generator) “MARK VI”, Bentley Nevada system “3500” (MMS: Machinery Monitoring System), OTS (Operator Training System), APC (Advanced Process Control), Honeywell-ENRAF TMS (Tank Management System), Fiscal Metering Skid system, Air compressor, Air Dryer, Demineralized Water and Slab Heating Packages (Siemens PLC), Operating Work Stations and Engineering Work Stations,   
  - Carry out pre-commissioning and commissioning activities Loop Checking & Functional Tests, and performance test for ICSS-DCS, ESD, F&G, and SCADA systems  
  -Provide Technical support and troubleshooting expertise, and where necessary make recommendations for modifications to Engineering department in order to prevent recurrence.
* Participate in weekly meetings with client and vendors for regular project updates and clarifications.

**October2011-March****2012 (Instrument Engineer « Supervisor »)**

* **COMPANY: Sarl RE-EL SERVICES « [www.reel-dz.com](http://www.reel-dz.com)** **»** **on behalf of GE General Electric company**
* **PROJECT: CPF SONATRACH STAH Algeria. revamping** **of turbo alternators,** **turbo compressors**
* **Scope of Work:** construction, pre-commissioning, commissioning, Start-up & test runs of the turbo alternators, turbo compressors with gas turbine GE MS-3001, MS-3002, MS-5001, MS-5002 and DCS, ESD, MARK6e, MMS, FGS, UPS, cabinet.

**April-October2011 Instrument Superintendent Assistant**

* **COMPANY: DODSAL Engineering and Construction FZE (www.dodsaldxb.ae) KBR2 company KILLOG BROWN & ROOTH PROJECT: KBR2 new GNL-2K Skikda Algeria).**
* **Scope of Work:** Pre-commissioning & Commissioning.
* Cables connections on instruments, JB’s, and cabinets. Continuity and insulation test. Installation of cable trays/ladders, cable conduits and cable pits.
* Supervise tubing installation and leak test, fittings connections, and tapping point installation according to Hook Up drawings.

Carry out instruments calibration and installation in laboratory and field.

* Instruments (manual calibration or with communicator HART for all types of the transmitters and switch "flow, pressure, level, temperature, vibration...etc." and fire & gas detectors).
* PRV (pressure relief valve), PSV (pressure safety valve), PCV (pressure control valve)
* Control valves/ON-OFF valves/ MOV, BDV, ESDV (re-calibration of I/P convertors and simulate the signal and check the valve and adjust stem/limit switch position and record stroking time).
* Loop Check for DCS, ESD, MARK6, MMS, MCMS, HVAC, Analyzer & FGS
* Motor Testing & Solo run (No load run) test (rotation and control command test" manual, remote, auto)
* Performance test Assistant.
* Troubleshooting (solving problems and punch list).

**October2010-March2011 Instrument Technical Engineer Office**

* **With Eurl BONATTI Algéria (www.bonatti.it) »** **on behalf of GSA Groupement Sonatrach Agip (project:** **provision of services maintenance CPF and wells services in ROD-BRN Algeria).**
* **Scope of Work:** Chief of laboratory instrumentation” Perform verification or re-calibration of:
* Instruments (manual calibration or with communicator HART for all types of the transmitters and switch "flow, pressure, level, temperature, vibration...etc." and fire & gas detectors).
* Chart recorders (pressure/temperature), PRV (pressure relief valve), PSV (pressure safety valve), PCV (pressure control valve)
* Control valves/ON-OFF valves/ MOV, BDV, ESDV (re-calibration of I/P convertors and simulate the signal and check the valve and adjust stem/limit switch position and record stroking time).
* Maintenance and Trouble shooting (replace instrument damaged and card electronic, relays…etc.
* Supervisor instrumentation construction works of the wells; Start-up & test runs of well injection pumps (MOYNO & TECNEWELL pumps).

**April-December** **2009 Instrument Engineer**

* **With DIAL ALGERIA on behalf of SONATRACH & PHP BILLITON** **association (project:** **provision of services maintenance of the CPF gas development in OHANET Algeria).**
* **Scope of Work:** Perform verification or re-calibration of:
* Instruments (manual calibration or with communicator HART for all types of the transmitters and switch "flow, pressure, level, temperature, vibration...etc." and fire & gas detectors).
* Chart recorders (pressure/temperature), PRV (pressure relief valve), PSV (pressure safety valve), PCV (pressure control valve)
* Control valves/ON-OFF valves/ MOV, BDV, ESDV (re-calibration of I/P convertors and simulate the signal and check the valve and adjust stem/limit switch position and record stroking time).
* Maintenance and Trouble shooting (replace instrument damaged and card electronic, relays…etc. Hydrostatic test for all vessel, tank, tower, exchanger temperature…etc...

**October2006-March****2009 Instrument Engineer**

* **With company** **on behalf of SONATRACH TRANSPORTER RTO & RTE Algeria (Project:** **revamping of the compressor stations gas pipelines GZ1, GZ2, GZ3, GK1, GK2, SONATRACH Algeria).**
* **Scope of Work:** construction, pre-commissioning, commissioning, Start-up & test runs of the turbo alternators, turbo compressors with gas turbine GE MS-3001, MS-3002, MS-5001, MS-5002 and DCS, ESD, MARK6, MMS, FGS, UPS, cabinet.

**August- October 2006 Instrument Engineer**

* **With EVOLUTEC INTERNATIONAL (www.evolutec-international.com)** **on behalf of FABRICOM GTI SUEZ (project: revamping of the compressor stations gas pipelines ‘S.C.D’ BARIKA,** **GK1, GK2 lines RTE Algeria).**
* **Scope of Work:** construction & pre-commissioning & commissioning &Start-up, test runs of the turbo alternators, turbo compressors with gas turbine GE MS-3002, MARK6 cabinet ».

**March- April 2006 Instrument Engineer**

* **With MGKM company Skikda Algeria on behalf of SONATRACH HASSI BERKAOUI (project: provision of services maintenance of the CPF SONATRACH HAOUD BERKAOUI Algeria).**
* **Scope of Work:** Perform verification or re-calibration of:
* Instruments (manual calibration or with communicator HART for all types of the transmitters and switch "flow, pressure, level, temperature, vibration...etc." and fire & gas detectors).
* Chart recorders (pressure/temperature), PRV (pressure relief valve), PSV (pressure safety valve), PCV (pressure control valve)
* Control valves/ON-OFF valves/ MOV, BDV, ESDV (re-calibration of I/P convertors and simulate the signal and check the valve and adjust stem/limit switch position and record stroking time).
* Maintenance and Trouble shooting (replace instrument damaged and card electronic, relays…etc. Hydrostatic test for all vessel, tank, tower, exchanger temperature…etc.

**October2005- February** **2006 Instrument Engineer**

* **With EVOLUTEC INTERNATIONAL (www.evolutec-international.com)** **on behalf of FABRICOM GTI SUEZ (project: revamping of the compressor stations gas pipelines ‘S.C.E’ AIN JASSER, GK1, and GK2 lines SONATRACH TRANSPORTER RTE Algeria).**
* **Scope of Work:** construction & pre-commissioning & commissioning &Start-up, test runs of the turbo alternators, turbo compressors with gas turbine GE MS-3002, MARK2 to MARK6.».

**June -October 2005 Instrument Technician L3**

* **With ENGTP company Skikda « NATIONAL COMPANY FOR GREAT OIL&GAS WORKS »** **on behalf of FMC company (Project: pumping station and jetty load arm in RTE SONATRACH TERMINAL TRANSPORTER Skikda Alegria).**
* **Scope of Work:** Cables connections on instruments, JB’s, and cabinets. Continuity and insulation test. Installation of cable trays/ladders, cable conduits and cable pits.
* Supervise tubing installation and leak test, fittings connections, and tapping point installation according to Hook Up drawings.
* Carry out instrument calibration and installation in laboratory and field.
* Instruments (manual calibration or with communicator HART for all types of the transmitters and switch "flow, pressure, level, temperature, vibration...etc." and fire & gas detectors).
* PRV (pressure relief valve), PSV (pressure safety valve), PCV (pressure control valve)
* Control valves/ON-OFF valves/ MOV, BDV, ESDV (re-calibration of I/P convertors and simulate the signal and check the valve and adjust stem/limit switch position and record stroking time).

**February- March 2005 Instrument Engineer**

* **With MGKM company Skikda Algeria on behalf of SONATRACH ELHAMRAA (project: provision of services maintenance of the CPF SONATRACH ELHAMRAA Algeria).**
* **Scope of Work:** Perform verification or re-calibration of:
* Instruments (manual calibration or with communicator HART for all types of the transmitters and switch "flow, pressure, level, temperature, vibration...etc." and fire & gas detectors).
* Chart recorders (pressure/temperature), PRV (pressure relief valve), PSV (pressure safety valve), PCV (pressure control valve)
* Control valves/ON-OFF valves/ MOV, BDV, ESDV (re-calibration of I/P convertors and simulate the signal and check the valve and adjust stem/limit switch position and record stroking time).
* Maintenance and Trouble shooting (replace instrument damaged and card electronic, relays…etc.
* Hydrostatic test for all vessel, tank, tower, exchanger temperature…etc

**October- December 2004 Instrument Engineer**

* **WIth EVOLUTEC INTERNATIONAL (www.evolutec-international.com) on behalf of Saipem company (project: new 3rd train of the CPF de ROD BRN Algeria).**
* **Scope of Work:** Pre-commissioning,Commissioning

Perform verification or re-calibration of:

* Instruments (manual calibration or with communicator HART for all types of the transmitters and switch "flow, pressure, level, temperature, vibration...etc." and fire & gas detectors).
* PRV (pressure relief valve), PSV (pressure safety valve), PCV (pressure control valve)
* Control valves/ON-OFF valves/ MOV, BDV, ESDV (re-calibration of I/P convertors and simulate the signal and check the valve and adjust stem/limit switch position and record stroking time).
* Loop Check for DCS, ESD & FGS

**March- June 2002 (training end of school)**

Training course on modelling of a module of recovery of the gas torches in refinery of Skikda Algeria.

**January2001-September 2004: (Manager of Company)**

Company public works all trades E.T.B.T.C.E. BECHAR NASREDDINE) cite zaghdoud madjid el-hadaik Skikda.

**EDUCATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_**

University studies: **Electronic Engineer (BAC+5)** Option: **Control**

(Session 09/2002) At Electronic Engineering Institute of Skikda University Algeria.

**CERTIFICATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* **Engineering System DCS YOKOGAWA CENTUM VP** Training Center Evolution of Technology at Evolutec International Skikda Algeria 02/2016.
* **ISM-ATEX Level 2-E** – National Institute for Industrial Environment and Risks (INERIS), France – Sétif Session, 04/2025.

**LANGUAGE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_**

- Arabic: Native  
- French: Intermediate (Working proficiency)  
- English: Intermediate (Working proficiency)

**TECHNICAL SKILLS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**