

IKWUNAGU ONYEKACHI

SENIOR INSTRUMENTATION & CONTROL ENGINEER

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NATIONALITY:	Nigerian
GENDER:	Male
EXPERIENCE:	10 Years
DATE OF BIRTH:	16/10/1982
MARITAL STATUS:	Married
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STATE OF ORIGIN:	Abia
LGA:	Isuikwuato

CAREER SUMMARY

My career has been built upon experiences gained in the Oil & Gas industries on Engineering, Procurement, Installation, Commissioning (EPIC) activities and project coordination for field instrument installations and construction. Expertise covers Conceptual studies, Front End Engineering Design (FEED) and Detailed Engineering Design (DED), Technical Bid Evaluations, Vendor follow-up for procurement activities including Factory Acceptance Test, Site Acceptance Test, Site Construction & Installation Technical support, supervision, Inspection and commissioning activity for Nigerian Liquefied Natural Gas Train 7, ETP & Endflash System Upgrade, Belemaoil Producing Ltd Robertkiri Produced Water Handling De-bottlenecking, Green Energy LPG Extraction, Eroton Exploration & Production OML 18 Gas lift, Chevron Nigeria Ltd Escravos Export System Pipeline, SPDC Southern Swamp Associated Gas solution and Total E&P Nigeria Ltd Fresh water Network Improvement Project.

The Task for some of these projects based on project requirement was accomplished with the use of Smart Plant Instrumentation (Intools) and instrualc design software.

In addition to instrumentation & control engineering on EPIC bias, hands-on experiences have been acquired in the areas of PLC ladder logic programming and interfacing it with SCADA, and field instrument calibrations with HART Communicator and digital pressure calibrator.

I have excellent communication skills, leadership style and possess strong capability of working as an independent and as a group engineer with little or no supervision and can coordinate projects and prioritize task to meet the project schedule target in line with the company's corporate policy without comprising safety and design quality.

EDUCATION

Master of Engineering (M.Eng) Electrical / Electronic Engineering

University of Portharcourt

- Feb 2017 – Dec 2019

Master of Science (M.Sc.) Information Technology

National Open University of Nigeria

- Nov 2012 – Aug 2014

Bachelor of Engineering (B.Eng.) Electrical / Electronic Engineering

Federal University of Technology, Owerri

- Mar 2002 – Dec 2007

TRAINING

- BOSIET Training (Charkin Maritime & Offshore Safety Training Centre) Feb, 2019
- QMS Awareness Training (BSA Management System Services Ltd) Sep, 2016
- Offshore Safety Training (OSTC HUET PASS) Sep, 2016
- Certified Instrument Calibration Engineer (Creative Technology, India) Dec, 2011
- Certified Automation Engineer (Smecs Lab Automation Pvt Ltd, India) Oct, 2011
- Proficiency Certificate in Management (Nigerian Institute of Management) April, 2010
- Basic & Supervision HSE (Nigerian Institute of Safety professional) Mar, 2010
- Microsoft Certified IT Professional Oct, 2009
- Microsoft Certified Technology Specialist May, 2009

PROFESSIONAL MEMBERSHIP

- Member Council for the Regulation of Engineering in Nigeria (COREN) Mar, 2015
- Member Nigeria Society of Engineers (MNSE) Nov, 2013

ENGINEERING SOFTWARE EXPERIENCE/TRAINING

- Ms-office Tools
- AutoCAD
- Smart Plant Instrumentation (Intools)
- Instrucalc
- Teknobuilt (Pace)

CAREER EXPERIENCE

Period: Mar 2020 – Till date

Organization: Dover Engineering Ltd Seconded to Saipem Contracting Nigeria Ltd

Designation/Position: Senior Instrumentation & Control Engineer

Project Title: NLNG Train 7 Project.

Responsibilities:

- Assigned to manage instrument brownfield tie-in scope and package follow up.
- Carried out site survey activities for instrument brownfield tie-in scope
- Engaged in weekly meetings for Engineering, LOC & MOC, Zippering with Company and all other job related.
- Supported the team in PEFS Mechanization, Index & Cable list development for Green Field Train 7 Areas.
- Engaged in the review of other instrument deliverables applicable for the Green Field Train 7 Areas.
- Reviewed Instrument General specifications, General instrumentation systems supplied with packages and Technical supply specifications.
- Reviewed Instrument datasheets for Train 4, 5 & 6 shutdown tie-in activities.
- Reviewed brownfield cable schedule, location layout and Installation hook-ups for Train 4, 5 & 6 shutdown tie-in activities.
- Produced brownfield Junction Box wiring diagrams for Train 4, 5 & 6 shutdown tie-in activities.
- Reviewed Schneider (Main Automation Contractor) documents and firmed up the brownfield loop drawings for Train 4, 5 & 6 shutdown tie-in activities.
- Reviewed brownfield Instrument Material Take-off for Train 4, 5 & 6 shutdown tie-in activities.
- Reviewed Purchase Requisitions (PR's) for Train 4, 5 & 6 shutdown tie-in procurement activities before PO Placement.
- Performed Technical Bid Evaluation for Train 4, 5 & 6 shutdown tie-in activities.
- Engaged in vendor follow-up for Train 4, 5 & 6 shutdown tie-in activities.
- Inspected instrument materials supplied for shutdown tie-in activities at the warehouse.
- Engaged in technical clarifications, review of documents and vendor follow-up for packaged instrumentation.
- Engaged in field instrument installation and (MAC) system integration follow-up at site during the shutdown window.

Period: May 2019 – Feb 2020

Organization: Dover Engineering Ltd

Designation/Position: Senior Instrumentation & Control Engineer (Project Lead)

Project Title: Effluent Treatment Plant Upgrade for Nigeria Liquefied Natural Gas.

Responsibilities:

- Managed the coordination and supervision of the instrumentation and reports directly to the Head Instrumentation & Control Engineer.
- Made input to PEFS and engaged in Hazard and Operability workshop.
- Prepared CTR for the instrument deliverables.
- Prepared instrumentation & control philosophy.
- Involved kick-off meetings and site surveys.
- Raise Technical Queries to client.
- Engaged in sound interdisciplinary checks and made relevant input to other disciplines.
- Engaged in independent joint design review (IDR) sections involving client SME's, regulatory agencies and subcontractors.
- Engaged in Layer of Protection Analysis (LOPA) studies.
- Worked on control narrative and safeguarding narrative update.
- Reviewed functional description and cause & effect matrix by third party subcontractor.
- Provided support to the team and ensured all the deliverables were properly reviewed.
- Involved in vendor follow up activities.
- Engaged in interface meeting with Main Automation Contractor and Client SME's.
- Closed out client comments.

Period: Jan 2019 – Apr 2019

Organization: Dover Engineering Ltd Seconded to Rovicon Oil Field Services Ltd

Designation/Position: Senior Instrumentation & Control Engineer (Project Lead)

Project Title: Robertkiri Produced Water Handling De-bottlenecking for Belemaoil Producing Ltd.

Responsibilities:

- Managed the coordination and supervision of the instrumentation and reports directly to the Project Manager.
- Engaged in kick off meetings and site survey.

- participated in weekly progress meetings and made input to weekly report.
- Made input to P&ID's and engaged in Hazard and Operability workshop.
- Reviewed all the instrument deliverables before transmitting them client.
- Closed out client comments.
- Made input to project closed out report.

Period: Sep 2018 – Dec 2018

Organization: Dover Engineering Ltd

Designation/Position: Senior Instrumentation & Control Engineer (Project Lead)

Project Title: EndFlash Safeguarding System Upgrade for Nigeria Liquefied Natural Gas.

Responsibilities:

- Managed the coordination and supervision of the instrumentation and reports directly to the Head Instrumentation & Control Engineer.
- Engaged in kick off meetings and site surveys.
- Made input to PEFS and engaged in Hazard and Operability workshop.
- Produced general instrument specification.
- Performed safeguarding narrative and cause & effect matrix update.
- Reviewed all instrument deliverables as approved in the MDR before transmitting them to the client.
- Closed out client comments.
- Made input to project closed out report.

Period: July 2018 – Aug 2018

Organization: Dover Engineering Ltd

Designation/Position: Senior Instrumentation & Control Engineer

Project Title: SPDC Southern Swamp Sales Gas Evacuation Pipeline

Responsibilities:

- Reviewed scope of work and produced instrument index with the use of INtools (SPI).
- Produced datasheets, JB wiring and Loop drawings with the use of INtools (SPI).
- Engaged in client review meetings and implemented client comments.
- Transmitted the backed-up files to the client.
- Provided project closed out report.

Period: April 2018 – June 2018

Organization: Kohasa Engineering Company Ltd

Designation/Position: Senior Instrumentation & Control Engineer (Project Lead)

Project Title: LPG Extraction for Green Energy International Ltd.

Responsibilities:

- Coordinated the instrumentation activities and reports to the Engineering Manager.
- Prepared cost time resources used for the bidding stage of the project
- Involved in internal/external kick off meetings after the contract was awarded.
- Engaged in site survey activity.
- Prepared instrument & control deliverables list required for the master document register (MDR) by the document control team.
- Assigned job roles and made this input to the project authority matrix for the project control team.
- Reviewed instrument deliverables as captured in the MDR produced by the team before transmitting them to the client.
- Participated in project progress meetings and ensured the resolution reached as per the project schedule and other related matters were implemented.
- Closed out client returned comments.
- Involved in vendors bidding stage and reviewed request for quotations (RFQ's) submitted by vendors.

Period: Nov 2016 – Mar 2018

Organization: Kohasa Engineering Company Ltd

Designation/Position: Senior Instrumentation & Control Engineer (Project Lead)

Project Title: OML 18 Gas Lift for Eroton Exploration & Production Ltd.

Responsibilities:

- Coordinated the instrumentation activities and reports to the Engineering Manager.
- Participated in the project bidding stage and produced the CTR deliverables.
- Engaged in kick off meetings and site survey activity.
- Assigned job roles and supervised team members.
- Made input P&ID's and participated in joint Hazard & Operability workshop.
- Provided the deliverables needed for the ITT package.
- Reviewed all the instrument deliverables before transmitting to client.

- Carried out sound interdisciplinary interface.
- Participated in project progress meetings.
- Prepared notional cost for field instrument integration into the existing system.
- Prepared notional cost for field instrument installation.
- Maintained effective cost management by visiting clients warehouse yard and ensured that available items that meet design specification was used during site construction.
- Engaged in technical bid evaluations (TBE's).
- Staged kick-off meeting with the construction subcontractors as was approved by the client project management team.
- Reviewed and approved vendor's document for instrument procurement activities.
- Reviewed and approved subcontractor's document as per the scope of work.
- Engaged in OEM's discussions and clarifications during vendors follow up activity.
- Managed cost on behalf of the client by cutting down the number of personnel from sub-contractors to be mobilized for site construction activities.
- Liaise with other discipline to provide solution for the closeout of discrepancies found in piping ISO drawing by the fabrication team at site.
- Supervised and provided technical support for the construction team at site.
- Witnessed field instrument validation and calibrations and approved the report before the commencement of pre-commissioning and commissioning activity.
- Expedited the replacement of failed instruments at site during validation test.
- Witnessed both hot loop and cold loop checks.
- Engaged in supervision of the onsite system cabinet retrofit works for the installation of carriers and cards on DCS system cabinet and wiring.
- Inspected onsite logic and graphics integrations for the importation of Gas-lift logics and addition of Gas-lift graphics to the HMI.
- Flagged up and raised punch list were applicable.
- Witnessed the close out of the raised punch list and signed them off.
- Carried out pre-commissioning and commissioning activity for the optimization of field instruments and valve stroking both with HART communicator and from Control & safety system.
- Assigned personnel to handle the tool box meeting at site.
- Ensured that the permit to work (PTW) is signed by relevant authorities.
- Filed daily progress report activities as scheduled on the job hazard analysis (JHA) and work method statements.

- Ensured the pre-commissioning and commissioning check list was endorsed by applicable parties.
- Interfaced with the client field managers and project management team with detailed report on project progress.
- Filed detailed close out report.

Period: July 2016 – Sep 2016

Organization: Kohasa Engineering Company Ltd

Designation/Position: Senior Instrumentation & Control Engineer

Project Title: Chevron Nigeria Ltd Escravos Export System Pipeline.

Responsibilities:

- Reviewed FEED documents.
- Supervised all the instrumentation and control design deliverables and ensured they are in line with the client specification (chevron Engineering standard) and all applicable codes and standards.
- Closed out client comments.

Period: Dec 2012 – June 2016

Organization: Kohasa Engineering Company Ltd Seconded to Saipem Contracting Nigeria Ltd

Designation/Position: Instrumentation & Control Engineer

Project Title: SPDC Southern Swamp Associated Gas Solution.

Responsibilities:

- Engaged in process engineering flow scheme (PEFS) mechanization for all plant locations.
- Participated in joint Hazard & operability (Hazop) studies.
- Prepared instrument index including those of packages with the use of INtools (SPI).
- Reviewed packaged vendor's document and captured the instrument in INtools database.
- Ensured that alarm and trip settings for all instrument are aligned and captured in the database.
- Involved in instrument junction box wiring diagram activity with the use of INtools.
- Prepared instrument cable list and junction box installation material list.
- Generated instrument loop diagrams (ILD's) and verified interfaces with Emerson on marshalling and system side connection with the use of INtools (SPI).
- Worked on instrument hook-up, specification and datasheets with INtools & Instrucalc.

- Participated in technical bid evaluations (TBE's).
- Reviewed Purchase Requisitions (PR's) for instrument procurement activities.
- Reviewed F&G detection layout, control room layout and cable route layout.
- Engaged in site survey activities for effective Brownfield and Greenfield project design.
- Prepared instrument for QEDI (Go CMS) required for commissioning activities.
- Prepared DDP file required for piping dimensional analysis.
- Engaged in kick-off meetings for instrument vendors and vendor follow-up activities.
- Engaged in OEM's discussions and clarifications during vendor follow-up.
- Integrated all vendor approved catalogue / drawing information into the design.
- Prepared instrument construction item list (CITEL).
- Made comment on engineering forecast for pending instrument deliverables.
- Prepared variation orders for design changes and sent same to client for approval.
- Reviewed client comment and implemented them effectively.
- Closed out field instrumentation engineering activities at site in remote locations.
- Participated in ICSS FAT.

Period: May 2012 – Nov 2012

Organization: Kohasa Engineering Company Ltd.

Designation/Position: Instrumentation & Control Engineer

Project Title: Total E&P OML 58 Fresh Water Network Improvement

Responsibilities:

- Made input to process and instrumentation diagram.
- Involved in generating instrument index and input/output list.
- Worked on instrument specification, datasheet, cable schedule and material take-off.
- Engaged in engineering site survey activity.

Period: Oct 2010 – Apr 2012

Organization: Intralog Engineering Ltd.

Designation/Position: Instrumentation Engineer

Project Title: General Instrument Services

Responsibilities:

- Calibration of smart instrument with HART communicator and digital calibrator.
- Installation of flexim (G601) ultrasonic flow meter.
- Valve stroking.