MAXIMILLIAN EBUKA DIM

MECHANICAL ENGINEER

Lekki, Lagos State, Nigeria.
Email: dimmaxi@yahoo.com, Skype: dimmaxi_1
P: +2348125896511, H: +2348034278506.

PROFESSIONAL SYNOPSIS

- I have Ten Years of intensive working experience in MECHANICAL/PIPING Engineering in Oil & Gas Industry.
- My general experience covers FEED (Front End Engineering Design), DED (Detailed Engineering Design), Facility Upgrades and Construction of Static Equipment, such as: Pressure Vessels, Pig Launchers/Pig Receivers, Lifting Equipment, Storage Tanks; Piping Systems; package equipment and Rotating Equipment; Pumps.
- Conversant with the International Codes and Standards applicable to Oil and Gas Particularly In Mechanical and Piping Engineering, such as ASME, API, ANSI, ASTM, NFPA, UL, AWWA, Shell DEP, NAOC etc.
- Currently attending a professional master's degree course in Rotating Machinery in University of San jorge Spain.

PROFESSIONAL ASSOCIATION / MEMBERSHIP:

- Member Engineers Australia: ANZSCO Code 233512; ID - 7837399
- Member Nigerian Society of Engineers, (MNSE): 46953
- COREN Registration No: R51013
- BOSIET certificate No: CM401319060208
- QHSE Supervision and HSE compliance Certificate.

ASSETS

- I have Problem solving ability, Innovation, adaptability, and quick learning skills.
- I am analytical, thorough and pay attention to details.
- I have led teams and am a good team player, hardworking, highly organized person with a positive attitude.
- I have the ability to handle multiple assignments under pressure with little or no supervision.
- I have consistently met tight deadlines.
- I have thrived on working in challenging environment.
- I have the ability to work unsupervised.

SOFTWARE EXPERENCE

- PV Elite (Pressure vessel).
- Caesar II Stress Analysis Software.
- Plant Design Management System (PDMS)
- AutoCAD
- Tank Software.
- AMETank Software.
- Compress
- Procal
- MS Package.

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CAREER HIGHLIGHTS

Client: Nigeria LNG Limited

Company: Dover Engineering Limited (Saipem Contracting Nigeria Limited).

Project: NLNG TRAIN 7

Objective: Detailed engineering, procurement and construction for the NLNG T7 project.

Designation: Senior Mechanical Engineer (Static Equipment)

Date: 2020 – Till Date.

Responsibilities:

- Prepared calculation report on end flash pressure vessel, Jetty surge/ drain drum, LNG surge drum, common liquefication unit propane accumulator, LP MR suction drum, LP propane suction drum, MP propane suction drum, HHP propane suction drum, and propane accumulator, etc. using Procal and pvelite.
- Comparing and resolving the calculation out-put differences between Procal and Pvelite for each of the static equipment designed.
- Supervising, reviewing and working with junior engineers to ensure that the document they are working on are according to company standards.
- Up-date and review the Equipment Data Requisition Sheet (EDRS)for detail engineering.
- Prepared detailed drawing for end flash pressure vessel, end flash pressure vessel, Jetty surge/ drain drum, LNG surge drum, common liquefication unit propane accumulator, LP MR suction drum, LP propane suction drum, MP propane suction drum, HHP propane suction drum, and propane accumulator, using Autocad.
- Liese with the Millan Operation Center to resolve most challenging technical issues arising on static equipment design.
- Prepared TBE for Air Coolers
- Prepared TBE for Pressure Vessels (end flash pressure vessel, Jetty surge/ drain drum, LNG surge drum, common liquefication unit propane accumulator, LP MR suction drum, LP propane suction drum, MP propane suction drum, HHP propane suction drum, and propane accumulator, etc.)
- Vendor Data Review and Procurement Support.
- Follow-On Engineering

Client: Brentex CPP Limited

Company: Dover Engineering Limited.

Project: Ajaokuta Kaduna Kano Gas Pipeline Project

Objective: Detailed engineering, procurement and construction for the Ajaokuta Kaduna Kano gas pipeline and stations project from block valve station 12 to Kano terminal gas station with a distance about 318.6km of the trans Nigeria Gas Pipeline and stations.

Designation: Senior Mechanical Engineer.

Date: 2019 – 2020.

Responsibilities:

- Prepared calculation report on cold vent stack of Ball Valve Stations and Zaria PS.

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- Supervised the preparation of mechanical datasheet for cold vent stack of Ball Valve Stations.
- Conducted technical resolution meeting between the client, subcontractor and my company
- Supervised and reviewed the calculation report on Pig Launcher & Receiver (Zaria PS).
- Supervised and reviewed the preparation of mechanical datasheet for Pig Launcher & Receiver (Zaria PS).
- Supervised and reviewed the calculation report on Close Drain Vessel (Zaria PS).
- Supervised and reviewed the preparation of mechanical datasheet for Close Drain Vessel (Zaria PS).
- Supervised and reviewed the preparation of mechanical datasheet for Pig Trolley and Jib Crane (Zaria PS).

Client: Desicon Engineering Limited

Company: Dover Engineering Limited.

Project: Drinking water and Demineralized water upgrade.

Objective: Design, fabrication & site erection of two (2) steel tanks (Drinking and Demineralized Water Tanks), one (1) Limestone Vessel and valves installation on the Biological filters (S-4301A/B/C/D/E/F/G/H) and the Integration of the newly installed storage tanks and vessel into the existing system, Commissioning and As-built documentation.

Designation: Senior Mechanical Engineer.

Date: 2019 – 2020.

Responsibilities:

- Prepared MDR (Master Document Register) and allocate man-hours to deliverables.
- Prepared Mechanical site visit Checklist for information/data gathering and Site Visit Report for project.
- Reviewed client FEED documents.
- Updated mechanical design basis.
- Updated equipment specifications for Drinking water storage tank, water lime stone bed vessel and drinking water supply pump.
- Prepared calculation notes for drinking water and demineralized storage tank, water lime stone bed vessel and drinking water supply pump.
- Updated data sheets for drinking water and demineralized storage tank, water lime stone bed vessel and drinking water supply pump.
- Modelled and generated foundation location drawing, equipment location drawing, piping general arrangement drawing, isometric drawings, support location drawing and check clash points using PDMS.
- Allocate tasks and supervise the activities of junior engineers according to specific time-line
- Supervised the preparation of detail engineering drawing for drinking water and demineralized storage tank.
- Supervised the preparation of equipment list.
- Ensured that the QA/QC qualities are incorporated as per client specification

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Client: Shell Petroleum Development Company of Nigeria

Company: Dover Engineering Limited.

Project: Assa North / Ohaji South Project.

Objective: Upstream Facility (drilling and completion of 6 wells, wells fluid gathering and allocation); Primary Treatment Facility (PTF) (gas and hydrocarbon liquids processing - dehydration, conditioning, compression and metering); Field Logistics Base (FLB) (Industrial Area and the Residential Area); Community Electricity Interdependency Project (CEIP); and products evacuation pipelines

Designation: Senior Mechanical Engineer.

Date: 2019 – 2020.

Responsibilities:

- Prepared MDR (Master Document Register) and allocate man-hours to deliverables.
- Prepared Mechanical site visit Checklist for information/data gathering and Site Visit Report for project.
- Reviewed client FEED documents.
- Prepared mechanical design basis.
- Prepared equipment specifications for diesel tanks, emergency diesel generator, eye wash, lifting equipment, pumps, plumbing; valves, pipes and fittings, and packaged equipment for the FLB IA.
- Prepared piping material specification, piping painting specification, pipe and pipe fittings specification for the FLB IA.
- Prepared calculation notes for diesel storage tank, rectangular water settling tank, diesel day tank and pumps for the FLB IA.
- Performed piping stress analysis and report.
- Prepared pipe wall thickness calculation
- Conducted technical resolution meeting between the client, subcontractor and my company
- Conduct weekly internal technical challenge meetings to help resolve interdisciplinary challenges facing the progress of the project.
- Prepared data sheets for diesel tanks, emergency diesel generator, eye-wash, lifting equipment, pumps, plumbing valves, and packaged equipment for the FLB IA.
- Assisted in modelling and generating foundation location drawing, equipment location drawing, piping general arrangement drawing, isometric drawings, support location drawing and check clash points for the FLB IA and RA using PDMS.
- Assisted in Preparing Piping General Arrangement Drawings and Isometrics.
- Prepared plumbing sizing calculation report for buildings for the FLB RA.
- Allocate tasks and supervise the activities of junior engineers according to specific time-line.
- Supervised the preparation of plumbing layout and detailed drawings for buildings.
- Supervised the preparation of equipment list and material take off list (MTO).
- Supervised and ensured that the QA/QC qualities are incorporated as per client specification.

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- Attended IDR (Independent design review)
- Perform vendor document review.
- Other jobs as may be assigned by the lead discipline Engineer.

Client: Nigeria Liquefied Natural Gas (NLNG)

Company: Dover Engineering Limited.

Project: NLNG Effluent Treatment Plant Upgrade

Objective: Increase capacity and restore sparing philosophy of the ETP in view of current and future projected effluent generation from both IA and RA in order to consistently remain in regulatory compliance with effluent discharge to the river

Designation: Mechanical Engineer.

Date: 2018 – 2019.

Responsibilities:

- Prepared Mechanical site visit Checklist for information/data gathering and Site Visit Report for project.
- Reviewed client FEED documents.
- Updated mechanical design basis.
- Prepared equipment specifications for eye wash and safety shower, lifting equipment, pumps, helical mixer, plumbing; valves, pipes and fittings, and packaged equipment for New & Existing ETP
- Prepared specification for pipes, fittings, flanges and pipe supporting
- Prepared calculation notes for activated carbon filter, knockout drum and pumps for New & Existing ETP
- Performed piping stress analysis and report.
- Prepared pipe wall thickness calculation
- Conducted technical resolution meeting between the client, subcontractor and my company
- Conduct weekly internal technical challenge meetings to help resolve interdisciplinary challenges facing the progress of the project.
- Prepared data sheets for mixing propellers, activated carbon filter, knockout drum, screen, eye wash and safety shower, lifting equipment (trolley hoist chain block), pumps, helical mixer, skimming device, air blowers, plumbing valves, and packaged equipment for New & Existing ETP
- Assisted in modelling and generating foundation location drawing, equipment location drawing, piping general arrangement drawing, isometric drawings, support location drawing and check clash points for New & Existing ETP using PDMS.
- Prepared plumbing layout and detailed drawings for operator's building for New ETP
- Prepared of equipment list and material take off list (MTO).
- Ensured that the QA/QC qualities are incorporated as per client specification.
- Attended IDR (Independent design review)
- Prepared mechanical handling report.
- Perform vendor document review.
- Allocate tasks and supervise the activities of junior engineers according to specific time-line

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Client: Nigeria Liquefied Natural Gas (NLNG)

Company: Dover Engineering Limited.

Project: NLNG Loading Debottlenecking & Robust Defrosting DDEP

Objective: To improve robustness of the BOG system and eliminate the personal and environmental safety hazard associated with draining and purging activity required to prepare the pumps or the suction strainer whenever maintenance work is to be carried out on them

Designation: Mechanical Engineer.

Date: 2018 – 2018.

Responsibilities:

- Prepared technical specification of Knockout Pot for Liquid & Defrost Gas.
- Prepared design calculation of Knockout Pot for Liquid & Defrost Gas.
- Prepared mechanical data sheet of Knockout Pot for Liquid & Defrost Gas.
- Prepared detail engineering drawing for Knockout Pot.
- Prepared Request for Quotation for Knockout Pot
- Prepared material take off list (MTO).

Client: Energy Link Infrastructure (MALTA) Limited.

Company: Dover Engineering Limited.

Project: Detail Engineering Design for Alternative Crude Oil Evacuation System (ACOES).

Objective: Detailed engineering works necessary for, the Procurement, Installation and Commissioning of new 12" x 2.9 km crude oil pipeline from CAWC-3 to CAWC-2 and new 12" x 47 km crude oil pipeline from CAWC-2 to FSO Location for the alternative crude oil evacuation of OML-18 production.

Designation: Mechanical Engineer.

Date: April 2018 – September2018.

Responsibilities:

- Assisted to prepare Mechanical design basis.
- Prepared technical specification for Pig launcher and Pig receiver.
- Prepared technical specification for Drain vessel.
- Prepared technical specification for Pig handling equipment.
- Prepared design calculation for Pig launcher and receiver.
- Prepared design calculation for Drain vessel using Pv elite.
- Prepared mechanical data sheet for Pig launchers and Pig receivers.
- Prepared mechanical data sheet for drain vessel.
- Prepared mechanical data sheet for Pig launching equipment.
- Prepared detail engineering drawing for Pig launcher and Pig receiver.
- Prepared detail engineering drawing for drain vessel.
- Prepared mechanical equipment list.

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- Prepared material take off list (MTO).

Client: AGIP Oil Company Nigeria Limited.

Company: Sudelettra Nigeria Limited KM16 Aba/PH Express Way.

Project: Water Re-Injection Restoration at Ebocha Oil Centre.

Objective: Cleaning and demolition of damaged EOC revamp facilities and existing facilities, and the repair to install water injection facilities or their replacement where required.

Designation: Mechanical/piping engineer

Date: October 2015 – March 2018

Design Responsibilities:

- Prepared specification for Gun Barrel
- Prepared Gun Barrel Design Calculation.
- Prepared Gun Barrel Mechanical Data Sheet.
- Prepared Detailed Engineering Drawings of Gun Barrel Tank as per API 650.
- Prepared Fabrication Drawings of Gun Barrel Tank, Platform, Stair case and other Steel works
- Developed Detailed Weld Map Drawings for Gun Barrel Tank, Platform, Stair case and other steel works.
- Prepared Piping General Arrangement Drawings, Piping Sections and Isometrics, Pipe Support Locations and Details, Preparation of MTO and Generating Bill of Material for Gun Barrel.
- Prepared Weld Map for Gun Barrel Piping Isometrics.

Field Responsibilities:

- Assisted in developing construction risk assessment in line with project risk assessment to identify and asses risk
- Interpreted construction drawings (ensuring compliance to approved P&IDs, G.A's and Isometrics)
- Participated in job Safety Analysis and make Safety suggestions.
- Monitored welding operations through visual inspections before, during and upon completion of welding and during repair if any
- Reviewed Radiographic films for all Piping and Tank.
- Assessed and aided to determine the most appropriate repair, alternation and rehabilitation strategy of tanks, pipes and vessels.
- Participated in Preparation of Red-marked Drawings.
- Participated in Carrying out final P&ID check of installed piping systems in the field.
- Participated in line checking and Piping's Loops/Test Package Review/ Approvals Etc.
- Participated in Monitoring, Investigating, Identifying and raising site quality issues to the project team.
- Generate and ensure complete closure of punch list items

Client: Mobil Producing Nigeria Limited (A Sub. Of ExxonMobil)

Project: QIT Gas Flare Elimination Project

Company: Sudelettra Nigeria Limited (SNL)

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Designation: Project Engineer (Piping).

Date: 2014

Responsibilities:

- Revised Piping Layout using PDMS
- Generated piping isometrics as built.
- Prepared Piping Specifications, Data sheets, Pipe support location and details as built.
- Supervised/Reviewed Piping line list, Piping Tie-in List, Piping Specification list, Piping Support MTO & Piping Support list.
- Produced shop fabrication drawings
- Carried out final P&ID check of installed piping systems in the field

Client: AGIP Oil Company Nigeria Limited.

Company: Sudelettra Nigeria Limited KM16 Aba/PH Express Way.

Project: Revamping Phase II Project at Ebocha Oil Centre.

Objective: To construct and complete all upgrades and process scheme independently Of Stand Alone Configuration aimed to supply (major) gas feed to NLNG Project -Train 6.

Designation: Mechanical/Piping Engineer.

Date: July 2013 -July 2015

Design Responsibilities:

- Reviewed Process Data Sheet.
- Analyzed and generated Calculation Reports for the Pressure Vessels and non-Pressure components (Instrument Air Receiver, Wet Air Separator, Instrument Buffer vessel, Back Wash Water Settling tank, Diesel Storage Tank, Test Separator) using Pv-elite.
- Prepared Mechanical Data Sheets for Pressure Vessels and Tanks.
- Prepared Detailed Engineering Drawing Of Static Mechanical Equipment, Pressure Vessels and Tanks as per (ASME VIII Div. I and API 650) complete with Platforms and Ladders.
- Prepared Fabrication Drawing Of Static Mechanical Equipment, Pressure Vessels and Tanks as per (ASME VIII Div. I and API 650) complete with Platforms and Ladders.
- Developed Detailed Weld Map Drawings for Pressure Vessels and Tanks, Platforms, Ladders and other steel works. Drawing of special support sketches.
- Prepared Piping General Arrangement Drawings, Piping Sections and Isometrics, Pipe Support Locations and Details, Equipment Layouts drawings, MTO, and Bill of Material for Different Mechanical Equipment.
- Prepared Hydro Test saddles drawings for Pressure Vessel and Tanks as per ASME VIII Div. 1&2.
- Prepared Pressure Vessel and Tanks transportation drawings as per ASME VIII Div. 1&2.
- Prepared piping hydro test packs and development of piping hydro-static lobe drawings
- Prepared lifting drawings.
- Prepared as built drawings

Field Responsibilities:

- Maintained and observed safety rules in the work environment
- Assisted in developing construction risk assessment in line with project risk assessment to identify and asses

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risk

- Reviewed drawings and prepared material cut list.
- Ensured that mechanical/piping materials are cut according to the required length as per drawing.
- Checked fit-ups, tack weld, dimensional and alignment to assure conformity before welding.
- Allocate personnel based on workload and delivery dates.
- Solved problems during the fabrication process and ensuring that work is carried out as per standard.
- Supervised the fabrication of mechanical and piping as per piping isometric and pipe supports and inspection of the root gap for proper penetration and fusion while welding is going on.
- Carried out visual inspection on all welding activities.
- Supervised Hydro testing of pressure vessels and piping
- Orientated and supervised spool erection
- Worked with the QA QC Inspectors to verify the size, dimension, orientation and root gap of weld.
- Tracked spool numbers at field.
- Generate and ensure complete closure of punch list items

Company: Deopel Engineering Associate, 108 Ada George Port Harcourt, Rivers State.
Designation: Trainee (Mechanical Engineer)
Date: March 2012 - May 2013

Responsibilities:

- Reports to Mechanical Engineer on daily basis.
- I attended in-house detailed design engineering trainings which includes fundamental in Process and instrumentation, Piping & Mechanical, Structural, HSE and quality management system.
- Trainings also include Auto-cad and MS suit package
- Prepared plumbing drawings for domestic buildings
- Prepared plumbing isometric drawings for domestic buildings

PERSONAL DATA

Place of Birth:	Adazi-ani, Anambra State
Date of Birth:	9th of May, 1987
Present Resident:	Port Harcourt, River State, Nigeria
Sex:	Male
Status:	Single

ACADEMIC BACKGROUND

Schools Attended:

2006 - 2011:	Federal University of Technology, Owerri, Imo State.
1998 - 2006:	Iyobo Aibuoefe Academy Secondary School, Benin City.
1992 – 1998:	Kiddies Junction Nursery/Primary School, Nkpor-Agu, Anambra State.

Qualifications Obtained:

2011: B. Eng. Degree (2nd Class Honours, Upper Division) in Mechanical Engineering

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2007: West African Senior School Certificate (WASSC)

1998: First School Leaving Certificate (FSLC)

HOBBIES

- Reading
- Swimming
- Football
- Seeing movies

RESEARCH WORKS

- Design and development of Automated bottle filling machine controlled by software.
- Necessity and improvement of Airbag.

REFEREES

- Engr. G. A. Ezekwem. (Project Controls Manager),
  Sudelettra Nigeria Limited.
  Km 16, PH/Aba Expressway
  Port-Harcourt, Rivers State
  08180479203, 08037600390

- Engr. Chike Nwachukwu. (Chief Mechanical Engineer),
  Dover Engineering Limited.
  27A, Forces Avenue, Old G.R.A
  Port-Harcourt, Rivers State
  08034049720