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PROFESIONAL PROFILE:

SENIOR MECHANICAL ENGINEER WITH EXPERIENCE IN: Maintenance and International Industrial Projects EPC. Oil & Gas, Petrochemical Plants, Reverse Osmosis Plant, Industrial Water Treatment Plants, RDI Chemical Plants (MIDREX and FINMET Processes), Rolling Mill, Steel Plant, Rotating Equipment, Static Equipment, Refractories, Material Handling, Stackers, Conveyor Belts, Pneumatic Transportation, Hydraulic Systems, Centralized Greasing Systems, Design and Continuous Improvement of Existing Processes and Equipment. Knowledge of different International Standards: ASTM / ASME / API / UNI / UNE / AWS / DIN / NEC / ASA / NACE.

BEGINNINGS PROFESSIONAL SIDERURGICA ESTATAL VENEZOLANA. CVG SIDOR C.A. 1978/1996. RDI MIDREX PROCESS CHEMICAL PLANTS. AND HYL II PLANTS TODAY (ENERGIRON TM) AS INDUSTRIAL MECHANICAL PLANT, DEPARTMENT. ENGINEERING AND PROCESSES.

INFORMATIVE NOTE: RDI Plants Are Chemical Plants That Work Like Petrochemical Plants with All Their Equipment. Rotating Equipment and Static Equipment Including Gas Reformers, to produce Hydrogen as an Iron Ore Reducing agent, either in PELLETS or IRON ORE. Compressors or Blowers Blowers to Move the Reformed Gas or Put the Natural Gas to the Reformer, Reactors, Columns, Water Treatment Plant and Gas Plant. Treatment and capture of Sulfur. All this with the Purpose of Producing Total Iron for Steelmaking and Substituting Pig Iron and Scrap for Electric Steelworks. Low Carbón Production.

CV. JERSON JOSE RODRIGUEZ AULAR MECHANICAL & PIPING ENGINEER EXPERIENCE:

Mechanics Advisor FREELANCER, in Gas Process Heater Oven Assembly, RDI Plant for TENOVA SpA/ Puerto Suárez Steel Complex EL MUTUN Santa Cruz Bolivia. 06/2024 – PRESENT DAY

- Assistance in the field to SINOSTEEL CO.
- Lead teams in the assembly of a Gas Process Heating Oven.
- Assist on-site with manufacturer and process owner company designs.
- Participate in Periodic Meetings with the SINOSTEEL China Work
- Edit weekly report of the Logbook with the Progress of the Work
- Prepare, when necessary, non-conformity reports with the expected quality of the manufacturer and the engineering issuer.
- Responsible for enforcing all Industrial Safety and Safe Environment regulations.

Supervisor of Quality & Erection. Montajes Mecánicos Y Puesta En Marcha SLU. 450 MW COMBINED CYCLE POWER PLANT / TEMANE. Mozambique. (Temporary replacement work). 11/2023 – 01/2024

Functions:

- Assistance in the field (05 Gas Turbines, 01 Steam Turbine)
- Supervising of Welders I the Procedure System. Testing carbon steel piping(Magnetic particles)
- Documents of QAQC. Tightening Torques /Steel Structure.
- Documents of QAQC. Tightening Torques /Mechanical Equipment's(Gas Turbine, Generators, Control Room Cabin.

Supervisor of Quality & Engineering Department of DURO FELGUERA Nederland's Revamping Blast Furnace 6 TATA STEEL Ijmuiden. 04/2023 – 09/2023

Functions:

- Assistance in the field
- Supervising of Welders I the Procedure System
- Engineering Assistance in the Night Works for QAQC
- Disassembly of Obsolete Pipes and Assembly of Substitutes / TATA STEEL

Mechanical Supervisor and Quality Control, Engineering (PV) EOSOL 03/2023 – 03/2023

Functions:

- Pre commissioning assistance in the field
- Taking measurements and parameters according to customer specifications in systems (Photovoltaic Plants)
- Owner Design STi. Norland / IBERDROLA

Quality Technician, Engineering Department of AFJ (PV) SPAIN TERRITORY. 01/2023 – 03/2023

Functions:

- Pre commissioning assistance in the field
- Taking measurements and parameters according to customer specifications in systems (Photovoltaic Plants)

Responsible for customer post-sale assistance, services and National Workshops: TDF PUMP RENTAL SL. Rental, sales of pumping systems and water treatment. Ciempozuelos Madrid. Spain. 05/2022 – 10/2022

Functions:

- Design of well pumping stations
- Work and Maintenance Orders for Own and Customer Equipment
- Office automation at User Level. NAVISION
- Customer service, resolution of problems with equipment sold or rented.
- Service and maintenance offer
- Translation of Equipment Maintenance and Operations Manuals
- Standardization of spare parts and national purchases (import substitution)
- Consulting. Materials, Coatings, Repairs

Technical Office Engineer: CELSIUS FACILITIES SLU. Aero termia, Heating, Radiant Floor, Plumbing. Alcala Henares Spain. 07/2021 – 12/2021

Functions:

- AutoCAD Isometric Design
- Office automation at User Level.
- Measurements
- Offers
- Legalizations
- Tenders
- Measurements
- Consulting.

Mechanics and Pipes in Project: Assembly Supervisor of Industrial Water Treatment Plant. Rolling Mill SUPRASET INGENIERIA S.A. Leon, Spain. 08/2020 – 01/2021.

Functions:

- Design of Special parts for the assembly of the Plant.
- Design and Modification of Metallic Structures
- Issuance of Spools for Workshop
- Measurements
- Assembly of Centrifugal Pump System
- Graouting application
- Dosing of Automatic Chemical Products
- Coupons for Sampling
- Advice.

Mechanical Engineer & Piping, FREELANCER / Turnkey projects. Puerto Ordaz Venezuela. Functions:

- Conceptual Engineering
- Detail Engineering
- Design of Non-Motorized, Fluvial Barge Type Vessels for Orinoco River Transportation
- Teamwork with the naval engineer, Jorge Hernández.
- Selection of Materials, Ferrous and non-Ferrous.
- Designs for Workshop and Exploded Manufacturing.
- Welding, Electrical description according to AWS regulations.
- Consulting, inspection, supervision.
- List of Materials and Accessories.

Hydraulic and Mechanical Supervisor in Project, Commissioning. BS-TECH Rolling Mill (SARRALLE Group) Spain / AKS STEEL ABADAN Islamic Republic of Iran. 08/2017 – 11/2017

Functions:

- Designs and Modifications On Site
- As Built Drawings
- Flushing, Pickling, Passivation, All Carbon Steel Pipes of the Complex.
- Commissioning.

Project Mechanics Supervisor, Commissioning: (Blast Furnace Renovation) PAUL WURTH SMS Group Italy. ALGERIA ANNABA. 02/2017 – 05/2017.

Functions:

- Designs and Modifications On Site
- Commissioning of Mechanical and Hydraulic Equipment, Coke Conveyor Belts
- Washing, Pickling, Passivation, All Carbon Steel Pipes of the Complex.

ENGLISH - B2
ITALIAN - B2
SPANISH – NATIVE LANGUAGE



SKILLS

- ✓ Writing technical reports.
- ✓ CEYDEG effective leadership
- ✓ Level I - II
- ✓ UNEG UNIVERSITY Management
- ✓ Basic Cartography.
- ✓ Industrial safety in the Oil and Gas industry PDVSA.
- ✓ Confined space
- ✓ Basic hydraulic systems.
- ✓ Penetrating Ink, XRay.
- ✓ Ultrasound



DIGITAL SKILLS

- ✓ Advanced AutoCAD
- ✓ 3D Autoplant
- ✓ AutoCAD 2D Advanced 2000, 2004, 2005, 2006, 2017
- ✓ Office: Excel, Word, Power point. Advanced.
- ✓ SQL
- ✓ INTERNET.
- ✓ NAVISION
- ✓ OFFICE PROFESSIONAL USE

INTERNATIONALS WORKS:

Mozambique Soud Africa, Plurinational State of
Bolivia, Saudi Arabia, Islamic Republic of Iran, United Arab Emirates ABU-DHABI, ALGERIA ANNABA, TENOVA Spa. Italy, Venezuela, Spain. For Transnational Engineering Companies such as: DANIELI ENGINEERING SPA, PAUL WURTH SMS ITALY, GRUPO SARRALLE Spain, INELECTRA S.A.C.A, GRUPO OTEPI S.A. SIVENSA GROUP C.A. Venezuela. C.V.G. SIDOR C.A. Venezuela.

- Commissioning of the DROPSPA Centralized Lubrication system, of the complex
- Commissioning of several Hydraulic Systems of the Blast Furnace complex.

10/2016-12/2016.

Mechanical Supervisor in the Annual General Shutdown of the METOR Methanol Petrochemical Plant.

(METOR ORIENTE/MITSUBISHI CHEMICAL) INELECTRA TAKES OFF. JOSE ANTONIO ANZOATEGUI East Refining Complex, Venezuela.

Functions:

- Repair supervision in KELLOGS type gas reformer.
- Disassembly of Counterweights and Suspension Springs of catalyst holder tubes.
- Disassembly and repair of burner boxes and repair of burners.
- Disassembly and Repair of Refractory Muffles for Burners.
- Repair of Pig Tails, entrance and exit to the catalyst holder tubes.
- Change of metallic Spiro gaskets in the 188 catalyst holder tubes.
- Change of heat protection sleeves on the upper part of the tubes.
- Tig welding inspection. Penetrating ink.

05/2014-10/2016.

GENERAL SUPERINTENDENT of the Project 165 MBD to 300 MBD Diluted Heavy Crude Oil. OIL&GAS INELECTRA/SINOVENSA-PDVSA, Project. Orinoco Belt Morichal Monagas Venezuela.

Functions:

- Civil Inspection: Soil Mechanics, High resistance concrete, compaction, earth movement, carried out by DELL ACQUA S.A. Sanitation and Filling, Method and Non-Destructive Testing.
- Erection of AC/HVAC In General Control room.
- Supervisors Report: Mechanics, Instrumentation, Piping, Industrial Safety, Electrical, Civil.
- Naphtha Injection Process as Diluent to Production Deposits.
- Emission of Spools and Installation of the valve system in fluid wells.
- Design of an 18" Oil Pipeline for Naphtha Transportation of 45 km, from the Flow Station to the DD Plant.
- Description of Penetrating Ink Test for Welding and Xray; Hydrostatic Pressure Test.
- Detailed Engineering in 24" Oil Pipeline by Hot TAPPING, to the Re-pumping System, Installation of 24" Gate Valves Penetrating and Hydrostatic Ink Test.
- Description of the Assembly and Commissioning of Preheating Furnaces for Dilute Heavy Crude Oil.
- Details of Assembly Sub Electrical Station for Diluent Pumping System to DD Plant.
- Assembly of SIEMENS Transformers.
- Manuals on SHELTER MCC description for equipment management.
- Design of Channels for the Wiring of the Screw Pump System.
- Grounding details of the special salt well for the Atmospheric Discharge System.
- Supervision and Assembly of Instrumentation and Control.
- Location and Coordinates on Electrostatic Desalinations
- Geographic Location of 08 BORNEMANN Screw Pumps.
- Development of the Metallic Structure of the Main Pipe Bridge.
- Pedestals With their Anchors and Addition of Grouting in Structure anchors.
- Location and coordinates of Heat Exchangers for Diluted Wet Crude.
- Location and coordinates of aero coolers for Dilute Crude from Production to Pumping.
- Location and coordinates of the Nafta separator tower in Diluted Crude in Plta. SINOVENSA JOSE.
- As built design, AutoCAD.
- Comments and Recommendations on Absence of Connection and Details in 24" Pipeline for Hot Tapping.
- Follow-up of the programming of the progress of the work, in conjunction with the project planner and Primavera program.
- Daily Project progress report to Site Manager Por. INELECTRA S.A.C.A.

01/2014-05/2014.

Project Engineer. EPC 165 MBD/300 MBD. INELECTRA SACA / PDVSA / SINOVENSA. Project 165 MBD to 300 MBD. Dairy, Anzoátegui Venezuela.

Functions:

- Review of 3D Model Presented by SINOVENSA /HQCEC China Petroleum.
- Review of detailed engineering to increase the production of diluted heavy crude oil to 165 MBD.
- Rev. 3D Piping Module Designed in China, discussion and comments for modifications.
- Rev. Isometric design and detailed engineering.
- Rev. Isometrics for manufacturing.
- Engineering Piping P&ID Rev. Presented by HQCEC.
- Implementation of an early production module of 40 MBD to crude, for DD. Designed for another Plant. Implemented by me at SINOVENSA Morichal DD
- Implementation of a 40" Fiscal Measurement Unit towards shipment.
- Design of Pipeline for transportation to port of shipment 40". To Mono buoy.
- PIRELI flexible pipes for connection to tankers.
- Superintendence of the Campo Morichal Monagas Project Orinoco belt
- Implementation of the Project 2014/2016

02/2013 - 05/2013.

Supervisor of Piping Designers. GROUP OTEPI S.A. / PDVSA / ODEBRECHT. Santa Rosa LPG Compresión Plant Project. Anaco Anzoátegui Venezuela.

Functions:

- Detailed engineering review carried out by JANTESA INGENIERIA in 2006. For PDVSA/SIEMENS.
- Review of Manuals and Details on SIEMENS TURBO Rotary Compressors.
- Redesign for the manufacture of New Spools.
- Isometric emissions for Workshop.
- Relocation of Bases Supports for mounting SIEMENS Turbine Type Rotary Compressors.
- Report to the Technical Manager
- Visit to the Construction Site 2 times per month, Physical Location for Real verification

02/2012-10/2012.

Equipment and Piping Specialist. Reverse Osmosis Plant 1,000,000 L3/d. desalinated water DANIELI ENGINEERING SPA. / E.S.I. STEEL Abu Dhabi United Arab Emirates United Arab Emirates.

Functions:

- Basic Engineering Review Performed by DANIELI ENGINEERING.
- Realization of Detailed Engineering.
- Emission of Isometrics for Workshop
- Design of Drawings Manufacture in Local Workshop of Pipe Fiberglass Reinforced Resistant over 16 bars.
- Description of Materials Such As: Rupture Discs Calibrated at 16 bars in line of Demineralized Water from Boilers to Plant. Direct Reduction ENERGYRON and Steel Plant.
- Modification Design in DUPLEX Pump Support Bases. Anti-Vibration Resonance Isolation.
- Manufacturing Details Steel Supports Coated with Saltpeter Resistant Epoxy.
- Updating of Designs and Modifications to Drinking Water Treatment Plant. Automatic Dispensers, Description and Details of New Reinforced PVC Pipe and Accessories.
- Detail of Instrumentation and Control.

01/2011-09/2011.

Superintendent of Piping and Equipment. ROLLING MILL. Al Rajhi Steel DANIELI ENGINEERING SPA. Jiddah City Saudi Arabia.

Functions:

LANGUAGES

ENGLISH - B2

ITALIAN - B2

SPANISH – NATIVE LANGUAGE



SKILLS

- ✓ Writing technical reports.
- ✓ CEYDEG effective leadership
- ✓ Level I - II
- ✓ UNEG UNIVERSITY Management
- ✓ Basic Cartography.
- ✓ Industrial safety in the Oil and Gas industry PDVSA.
- ✓ Confined space
- ✓ Basic hydraulic systems.
- ✓ Penetrating Ink, XRay.
- ✓ Ultrasound



DIGITAL SKILLS

- ✓ Advanced AutoCAD
- ✓ 3D Autoplant
- ✓ AutoCAD 2D Advanced 2000, 2004, 2005, 2006, 2017
- ✓ Office: Excel, Word, Power point. Advanced.
- ✓ SQL
- ✓ INTERNET.
- ✓ NAVISION
- ✓ OFFICE PROFESSIONAL USE

INTERNATIONALS WORKS:

Saudi Arabia, Islamic Republic of Iran, United Arab Emirates ABU-DHABI, ALGERIA ANNABA, Venezuela, Spain. For Transnational Engineering Companies such as: DANIELI ENGINEERING SPA, PAUL WURTH SMS ITALY, GRUPO SARRALLE Spain, INELECTRA S.A.C.A, GRUPO OTEPI S.A. SIVENSA GROUP C.A. Venezuela. C.V.G. SIDOR C.A. Venezuela.

INGENIERO MECANICO. UNIVERSIDAD CENTRAL
DE VENEZUELA

- Detail Engineering Review
- Review of Isometrics for Workshop
- Control of Workshop and Yard Materials, Works with sandblasting.
- Supervision of Spools Manufacturing According to Design and Assembly
- Supervision of DANIELI Filter. Sand, Gravel, Anthracite, and Surface Oil Skimmers. Plant. Industrial Water Treatment.
- Supervision of Welding Works and Testing with the QAQC Technician
- Assembly of Auxiliary Equipment. Tanks, Pumps, Recirculation Systems.
- Pressure test, pickling, washing, passivation, of the hydraulic systems, Lubrication, Cooling, Tires, of the complex, under the DANIELI regulations and standards.
- COMMISSIONING. Weekly reports on the progress of the Work to the Headquarters of DANIELI Italia.

02/2008-12/2008.

Piping and Equipment Supervisor on Board. Reverse Stand Mill. Khuzestan Steel DANIELI ENGINEERING SPA. Ahwaz City Islamic Republic of Iran.

Functions:

- Detail Engineering Review
- Emission of Isometrics for Workshop
- Design of Modified Bases for Installation of Mechanical Equipment on Site.
- Pipe assembly
- Assembly of rolling mill equipment (Reverse Stand Mill)
- Assembly of DELIMON Centralized Lubrication System
- Assembly of the LETCHER Nozzle System descaled from the Hot Slab
- Assembly of Hot Rolling Cylinders, Up and Down.
- Erection of DANIELI Lubrication standard Rolling Star.

08/1997-01/2008.

Mechanical and Piping Designer. Engineering Management. RDI Chemical Plant FINMET BRIQUETTING PLANT. Iron Ore Fluidized Bed System. ORINOCO IRON HIB SIVENSA Group – Puerto Ordaz Venezuela.

Functions:

- Design of Reactor Loading Systems by Modified Conveyor Belts.
- Design of Internally Coated Pipes with Special Refractories resistant to Abrasion and High Temperature RISER systems., Mechanical Supervision of Plant Shutdowns
- Double Seal Accordion Type Inter-Reactor Temperature Compensation System.
- Miscellaneous Modifications to Existing Equipment
- Continuous Improvement.
- Continuous improvement. And Quality Control.
- Turnkey projects, supervision of installation and commissioning.
- Design of transportation systems.
- Conveyor belts,
- Pneumatic conveying systems.
- Supervision of plant shutdowns for Maintenance.

06/1978-07/1996.

Mechanical and Piping Designer. Engineering and Process Management. RDI MIDREX Chemical Plants. I AND II SIDERURGICA NACIONAL C.V.G.SIDOR C.A. –Puerto Ordaz Venezuela.

Functions:

- Design of Modified Conveyor Belt Systems.
- Design of pipes for the transport of reducing gas in the MIDREX Gas Reformer.
- Modification of reformed gas outlet elbows (Modification of internal stainless steel to High Alumina refractory tube)
- Miscellaneous Modifications to Existing Equipment
- Design of Mechanical Parts, Shafts, Parts of Iron Ore Mills, Screens, Gas Scrubbers.
- Design of special anchors for lobe compressors, process gas compressors. ESTATE. AERZEN.
- Supervision of plant shutdowns for Maintenance.
- Supervision of Refractory Works in Reactor and Reformers
- Mounting of refractory roof by modules of special Mineral Wool Resistant to High Temperature
- Modification of the counterweight system for a new one with a double dynamic counterweight to control the elongation of the catalytic converter tubes.