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SUMMARY OF QUALIFICATIONS

Combines a degree in chemical engineering and a Master of Science in Engineering Management with over 35 years of experience in the engineering, design, operations, project management, construction and business development of chemical, petrochemical and petroleum refining plants, as well as high level management business planning. Strengths include:

PROFESSIONAL EXPERIENCE

WorleyParsons Group Senior Project Manager

November 2012 – April 2016

Responsible for managing activities related to the execution of the expansion project for Esmeraldas Refinery in Ecuador. Oversaw the execution of the engineering activities performed by three engineering companies for the following projects / proposals:

FCC Expansion Unit
Main Distillation Unit
Gas Con Unit
Esmeraldas Flare and Relief System Debottlenecking Study
Debottlenecking Study of the Vacuum Units
Configuration Study to improve the quality of fuel of Shushufindi and Esmeraldas refineries

Coordinated the execution of the Schedule “A” engineering package for the process units:
Merox Unit
Amine Unit
Sour Water Stripper Unit

Prepared proposals (and were awarded) for:
Refinery Drainage Systems upgrade
Revamp of the LNG Plant located at Machala, Ecuador

For these projects, was responsible to kick off the engineering activities, oversee their execution by three engineering companies, maintain weekly and monthly meetings with the engineering group of the three engineering companies and report back to the Project Director the advancement of the project.

Assisted the field crew in the pre-commissioning and commissioning procedures preparation as well as in the plants turnaround involved in the project.

Middough Inc. Senior Project Manager

February 2011 –November 2012

Responsible for managing all the activities related to the execution of the downstream projects (Refinery, Petrochemical and Chemical related projects).
Acted as Project Engineer coordinating and overseeing a group of 25 engineers as well as managing the interface between engineering and procurement on the execution of a project to design the process facilities to be installed on an

FPSO ship to be operated offshore in the Gulf of Mexico.

Maverick Engineering Inc.
Project Manager

May 2008 – January 2011

Responsible for managing a group of 50 engineers split in two groups, one located in Houston and the other group located in Maracaibo, Venezuela. These groups were responsible to execute all the activities related to the execution of the residual gas compression plant, which is part of a Liquefied Natural Gas (LNG) project to be installed in San Joaquin, Venezuela. This Project was executed for PDVSA working in coordination with Siemens Turbo Machinery Group who supplied the machines for the residual gas. TIC for the portion managed is approximately 160 million dollars.

For this project, was responsible to kick off the engineering activities, oversee their execution by two engineering companies, one located in Venezuela the other in Houston. Maintain weekly and monthly meetings with the engineering group of the these engineering companies as well as with the equipment supplier located in Germany and report back to the CEO of the company.

As a side activity, started a Business Development plan for Colombia projects and served as liaison between Maverick Inc. CEO and the Colombian companies' representatives.

Jacobs Engineering Group
Project Management Group

Dec. 2006 – May 2008

Worked as Project Manager in External Logistics area for a 7.4 billion dollars' project executed for Shell/Motiva at Port Arthur, Texas.

Managed activities for 11 companies involved in the external areas (Offsite/Utilities) of the project. Amongst such interfaces are:

Hydrogen supply for the new units and interconnection with existing units.

New Power Plant necessary to supply power for the new units.

Crude Oil pipeline to supply the feedstock for the expansion project.

Storage Tanks for new crude oil and finished products

Coke Handling facilities for coke coming out of the Delay Coking unit

Isobutane supply from external sources

Project Director. Was hired to direct all technical activities for projects to be executed for PDVSA in Venezuela through the concept of managing a Task Force to execute these potential opportunities.

PDVSA - Cardón Refinery, Venezuela.
Project Engineering Manager, FCC Expansion Project

May 2004 – Nov. 2006

Responsible for leading the Project Engineering Team (around 20 PDVSA personnel and a consortium formed by the two largest engineering firm in Venezuela (Tecnconsult and Inelectra), reporting to the project Manager, Engineer Arsenio Naveda (telephone # 011-57-316-877-1325)

The project objective was modifying the FCC Unit and process units related to the FCC unit to boost their capacity in 15% and adequate it to comply with the environmental Venezuelan standards. Amongst the activities performed during the execution of the project are:

Coordinating all the technical / engineering activities and serving as liaison between Shell, UOP and PDVSA to complete detail engineering activities

Project Capital Investment was around 500 million dollars.

Accelerating equipment purchasing by implementing expediting strategies.

Savings in this project due to implementing actions from the group were around \$10.0 MM

Evaluating process and environmental alternatives to select the best options for the project

Contribute during the catalyst evaluation, commissioning and start up planning phase

Assisted the field crew in the pre-commissioning and commissioning procedures preparation as well as in the plants

turnaround involved in the project.

ONYX Engineering Inc. Houston-Texas**June 2000 -April 2004****Program Director (While acting as Vice President of Onyx Engineering Inc.)**

Responsible to coordinate the technical team to execute the upfront work of a project related to a Liquid-Liquid extraction plant. Reporting to the President of the Company, Guillermo Guariguata (Telephone number in Houston: 011-281-217-2858)

The plant is used for the purification of reprocessed motor oil and was installed in Germany

Lead a group to plan and supervise the evaluation process (pilot plant tests) of two liquid catalysts used in the liquid – liquid extraction process with the objective of selecting one of them.

Lead the technical team through the selection of the best scheme for the Liquid -Liquid extraction process

Lead the project team to develop the conceptual and basic engineering activities (schedule “A” type package)

Cost of the project was around 25 million dollars.

Refinery Technical Manager – Germany (While in Onyx Engineering Inc.) Jan. 2003 -April 2004

Responsible for preparing the technical organizational structure of the newly acquired Refinery

Develop a work program to identify potential areas to invest.

Responsible for putting in place a revenues improvement program in a lube oil reprocessing refinery in Germany.

During this time was responsible to evaluate several refinery streams, develop concepts for potential capital projects and evaluate technical and economically these conceptual process schemes.

The outcomes of this exercise served as the basis for obtaining an investment loan for the amount of 25 million Euros to build infrastructure and modifications in the refinery to implement the process facilities related to this program.

Lead a group to prepare turnaround inspection procedures as well as the commissioning procedures for the refinery.

General Manager of a Lube Oil Reprocessing Plant in Saudi Arabia March - Dec. 2002

Responsibilities were in the area of leading a group of 58 employees, between engineers and operators, to start up the plant, developing the organization and run the company for a period of almost one year. Amongst several important aspects of this work are:

Capacity of the plant is 70,000 Metric Tons per year of reprocessed Base Oil

Location of the plant: Industrial city of Jubail, Kingdom of Saudi Arabia.

Was responsible to lead the construction and the operations group to start up the plant to the plant turnarounds during the next two years of operations.

Was responsible for all technical aspects of the production including the plant turnaround and plant pre-commissioning/commissioning activities as well as the started up of the plant.

Activities included organization of the sales, finance, human resources, quality control, planning and logistic groups.

Was in charge of representing the company in front of potential clients in the UAE (United Arabs Emirates) countries.

Reported directly to the board of director, presenting operational results obtained in that period in a monthly basis during board of directors meeting.

Commissioning/Start up Director in Saudi Arabia June 2001-March 2002

During this period, was in charge of leading all the Commissioning and Start Up activities, acting as Commissioning Director until the plant was placed on stream and normal production.

One of his contribution was to complete the project and start up the plant that otherwise would have represented around \$ 70 million of losses for the shareholders. Reported directly to UNILUBE board of director. Was responsible to lead the construction and the operations group to start up the plant.

Vice President ONYX Engineering Inc.**June 2000 - April 2004**

Amongst his responsibilities were the Business Development activities in South America, mainly Venezuela. During this phase of work at Onyx Engineering was capable of introducing the company to a completely new geographical market. The company executed upfront work in Venezuela in the order of 1.0 million dollars. These activities were somehow stopped due to the need to move to Saudi Arabia with the same Holding Group. As part of his responsibilities was managing the project awarded overseas and acting as Business Manager for these jobs. Reported directly to the President of the company Guillermo Guariguata, telephone number: 001-281-217-2858.

**RAYTHEON Engineers & Constructors, Houston-Texas,
Program Manager/Business Development**
**March 1995-June 2000
Jan. 1997- June 2000**

As Program Manager for Raytheon Engineers & Constructors had defined responsibilities as Business Development Manager for all the work and potential work in Venezuela.

Acted as Business Manager with technical responsibilities during the execution of the awarded projects.

Main responsibility was to assure the award of the project and serve as liaison between the Raytheon execution team and the Venezuelan Management at the different levels of PDVSA affiliates.

During the execution of this program was able to bring to the company around \$30.0 MM for the execution of Conceptual and Basic Engineering work. Reported directly to Samuel Giancarlo, Houston office General Manager. (Retired, no telephone available)

A list of projects, awarded and worked on during this period, is attached and can be discussed during interview.

Project Manager Engineering**March 1995-Dec. 1996**

As project manager in engineering was responsible of directing and coordinating the timing and quantity of resource, skills, and knowledge to complete the engineering portion of PETROZUATA project, coordinating all the activities executed with the local engineering company in Venezuela.

**COSA Ingenieros Consultores, Maracaibo-Venezuela,
Process & Control Engineering Manager**
**Sept. 1990 –March 1995
Sept. 1990 - March 1995**

As Manager of Process Engineering, Instruments & Control, responsibilities included supervising more than 40 professionals of different levels and disciplines. Main responsibility was to develop conceptual and basic engineering from the process engineering standpoint, as well as assign these resources to the different projects under execution in the company.

**Project Manager-Mild Vacuum Plant Project, Cardon Refinery
Project Manager-LPG Automation Project, Bajo Grande Refinery**
**1992 - 1994
1993 - 1994**

As Project Manager for the Mild Vacuum Plant and the Maraven LPG Automation projects, was responsible to take the projects from the basic engineering development stage up to the construction phase.

**PETROLEOS DE VENEZUELA, S.A. (PDVSA), Caracas-Venezuela,
Process Engineering Superintendent –El Palito Refinery, Venezuela**
**Sept. 1978 - Sept. 1990
July 1989-1990**

As Process Engineering Superintendent, was responsible for programming, coordinating, giving technical assessment and controlling execution studies and projects, oriented to solve operational problems.

Was responsible of leading a group of 25 process engineers to oversee and maintain an optimum operational mode of all the units. Amongst the process units were: Crude distillation (atmospheric and vacuum), naphtha hydrotreating and reforming unit, FCC unit, Alkylation Unit, Sulfur, Merox, BTX complex comprised of: Sulfolane Unit, Xylene Splitter, Benzene, Toluene fractionation, Xylene Isomerization, PSA unit, etc.

Worked in the same position of Process Engineering Superintendent at Puerto La Cruz Refinery, Venezuela for a period of 6 months.

During the time holding this position, was responsible for technical improvement aspects of the refinery, including the coordination with the operations and maintenance group during the planning and execution of plants turnaround and plant pre-commissioning/commissioning activities.

Project Manager - Corpoven (PDVSA)**Jan. – July 1988**

Assume this role while acting as Process Engineering Superintendent. Was responsible for a project to move a refinery from the western part of Venezuela to the El Palito Refinery Area (Central part of Venezuela)

BTX Project Licenses & Performance Guarantee Agreements Coordinator**Dec.1987- July 1988**

As Licenses and Guarantee Agreements Coordinator, was responsible for coordinating all the meetings and discussions with licensors of different petrochemical and petroleum refining technologies up to a point where such agreements were approved by the Venezuelan Petroleum Holding company (PDVSA) as well as the governmental office (Ministry of Energy & Mines). Coordination included all the technical and legal aspects related to such licenses.

Refinery Operations and Projects Evaluation Analyst**Jan. – Dec. 1987**

During this period was responsible for analyzing the performance of the Venezuelan refineries as well as Isla Refinery in Curacao from the operations-economical standpoint.

Was also responsible for evaluating the projects, from the technical / technological and economical feasibility standpoint.

BTX Project Leader**Jan. 1985 -Dec. 1986**

As BTX Project Leader was responsible for coordinating and managing a group of four Corpoven (PDVSA) resident engineers at UOP offices in Des Plaines, Illinois, while the Schedule "A" package for a Naphtha Hydrotreater, Platformer, THDA, Xylenes Splitter, Xylene Isomerization (ISOMAR), Sulfolane and a PSA units was developed. The cost of this project was around \$ 240 MM. Lead a team to assist the operations management team in the preparation of the pre-commissioning, commissioning and plant start up procedures.

Process/Project Engineering Supervisor**March 1983 -Dec. 1985**

As Process Engineering Supervisor, responsibilities comprised coordination and execution of refinery operations optimization, as well as the day-to-day data gathering and analysis

Organic Peroxides Plant Manager- Pennwalt Venezolana, C.A.**Sept. 1981- March 1983**

(A subsidiary of Pennwalt Corporation U.S.A.)

Was responsible to lead a group of 45 employees to commissioning and start up the plant and run the operations for a period of about two years and a half. Economic situations in the country (Venezuela) made the shareholders close down the facility. As Plant Manager, participated in shutting down the facility.

Project Manager-Pennwalt Venezolana, C.A.**Dec. 1979 – Sept. 1981**

Was responsible to coordinate and lead a process to execute the basic and detail engineering for the project to design and build an Organic Peroxides Plant in Venezuela. Took these activities through the construction phases up to the commissioning and start up of the plant.

Operations Supervisor LAGOVEN (Pdvsa)**Sept.1978 – Dec. 1979****EDUCATION**

Master of Science in Engineering Management - University of Tulsa
 Bachelor of Science in Chemical Engineering - University of Tulsa,
 English Proficiency - San Antonio College, Texas,
 Ingeniero Químico-Universidad Central de Venezuela,

June 1978
 Dec. 1976
 August 1973 Dec.1974
 1989

PROFESSIONAL

License: Registered Professional Engineer, Texas Number 86153
 Registered Professional Engineer, Core of Engineers-Venezuela
 Affiliations: American Institute of Chemical Engineers – Senior Member

SUPPORT INFORMATION

<u>Project</u>	<u>Company/Location</u>	<u>Responsibility</u>
See List Attached (To be discussed during personal interview)		Business Manager
Petrozuata Project	Maraven/Conoco / Jose, Venezuela	In-Country Coordinator
Mild Vacuum Unit	Maraven, S.A./ Cardon Refinery	Project Manager
LPG Plant Automation Project	Maraven, S.A./ Maracaibo	Project Manager
Cerro Negro Orimulsion Project	Lagoven, S.A. Maracaibo	Process Eng. Coordinator
Hamaca Extra Heavy Crude Oil	Corpoven,S.A. / Maracaibo	Process Eng. Coordinator
Zuata Orimulsion Pilot Plant	Maraven, S.A. / Maracaibo	Process Advisor
Crude Distillation Unit Revamping	Copoven, S.A / El Palito Refinery	Process Eng. Superintendent/ Project Manager
BTX Complex	Corpoven, S.A./ El Palito Refinery	Project Coordinator
Wastewater Treatment System	Corpoven, S.A. / Maracaibo Bajo Grande Refinery	Project Leader
Boscan /Lagomedio (Crude Blending)	Corpoven, S.A. / Maracaibo Bajo Grande Refinery	Process Coordinator
Steam & Condensate System Bajo Grande Refinery	Corpoven, S.A / Maracaibo	Project Coordinator
Furnaces & Boilers Efficiency Study	Corpoven, S.A. / Maracaibo Bajo Grande Refinery	Project Coordinator

SUPPORT INFORMATION

List of jobs in which worked as part of the Project Team as well as Business Development/Business Manager
Following you can find a list of Conceptual and Basic engineering work executed for PDVSA through a TASK FORCE TEAM Concept based in Houston while working at Raytheon Engineers & Constructors.

The Maraven/Conoco Basic Engineering Design (Now Petrozuata)

Maraven/TOTAL (Now SINCOR) Definitive Planning I

Maraven/TOTAL Definitive Planning II

Maraven/TOTAL Pre Basic Engineering

Maraven/Conoco-Maraven/TOTAL Synergy Study

Maraven/Conoco – Lagoven/Mobil Synergy Study

Maraven/Chevron Integration Study

Cardon Refinery Master Plan

Optimum Flare Location Study at Jose

Pipeline Transportation from Zuata area to Jose site

Jose site Plan Study

Maraven Cardon Refinery for processing Petrozuata crude

Extended Basic Engineering (A FEL exercise) for CD-3 Revamp

Blending and Tank Rationalization for Cardon Refinery

Maraven/Coastal Association

Maraven Cardon Hydrotreater Study

Maraven Maracaibo Automation Project

Maraven Maracaibo / TDA Gas recovery project

PROESCA Coke/Deasphalter Bottoms Gasification Study

PDVSA/TDA Gas To Liquids Conversion Feasibility Study