

COVER LETTER

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Name:	Claudio Passarella		
Designation:	Optimization, APC, Automation, Instrumentation, Functional Safety and Process Control Specialist, Consultant, Engineer, Manager.		
Nationality:	Italy and Venezuela	Date of birth:	May 24 th , 1960
Education:	<ul style="list-style-type: none">• <u>Chemical Engineer</u> (Jan-1984) Universidad Simón Bolívar. Caracas, Venezuela. (www.usb.ve)• <u>Master Scientarium in Chemical Engineering</u> (July 1989) (Specialization: Automation, Instrumentation, Optimization and Process Control) Universidad Simón Bolívar. Caracas, Venezuela. (www.usb.ve)		
Prof. Affiliation:	TÜV Rheinland SIS FS Engineer certified: 1125/08 2008		

CAREER SUMMARY:

I am a Chemical Engineer, with a Master degree (MSc) pointed to “Advanced Process Control” (APC), Industrial Automation, Instrumentation, and Process Control.

My main experience is in Oil and Gas industry is oriented toward Simulation, Instrumentation, Functional Safety and Process Control.

I have been involved in several projects, performing PMC/EPC, Company and Contractor roles.

My professional experience covers:

- a) Project management experience on development of commercial and technical project specifications. Project budget and cash flow, cost and benefits estimations. Project scheduling, control, man effort estimation and control of project team management. Production planning and optimization. Commercial offers revision/evaluation. Preparation/Management of contracts for technical services. ITB Revision.
- b) Experience applying international standards (ASTM, API, IEC, ASME, IEEE, ANSI, ISA, DIN, ISO, NACE, BS, Saudi Aramco, PDO, Shell DEPs, Total GSs).
- c) Design, selection and verification of contractors, and vendor documents for control valves, instrument data sheets, control (DCS) and safeguarding (SIS) systems, and analysers.
- d) Development of Control/Safeguarding narratives, integrated narratives, operation procedures, cause and effect tables, control logics, safeguarding protection logics, for hydrocracker reactors, compressors, pumps, air coolers, separators, etc.
- e) Experience on Control and Instrumentation definition, design, installation, construction, commissioning, start-up and operation, oriented toward project Management/Control. Valve Partial Stroke test design, Valve asset management system, Regulatory/Basic Process Control, MIMO control, Compressor/Anti-Surge Control, Combustion control, Advanced/Complex Control loops, APC, Complex Control, Supervisory control, Regulatory/Basic Control, Constraint/Optimisation Control, Batch Control, Distillation control, Neural Networks, Sequential Control, Custody Transfer, Refinery Planning/Scheduling, Operator Training Simulator (OTS).
- f) Application experience of the standard IEC 61508/61511: design of safety systems (SIS, IPS, ESD) and safety functions (SIFs, IPFs), “Safety Requirement Specifications” (SRS), SIL determination/verification, PFD/PFH calculations, Hazop, FMEA, FMECA, FMEDA, emphasis on diagnostics in safety design.
- g) I have planned, leaded and been involved in many DCS/SIS FAT/SAT activities. Including own prepared procedures and simple simulators to test Control/Safeguarding logics in FAT sessions.
- h) Checking instrumentation installation at the plant, against instrument hook-up drawing. Generate list of recommendations and required modifications/recalibrations to fulfil good engineering practices and project design specifications.
- i) Strong Communication/Documentation/Writing skills and experience as project engineer and project leader. Strong analytical and solving problem skills combined with strong technical knowledge.