Waldyr Esteban García

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Mechatronic Engineer with experience in Peruvian industry such as mining, oil, gas and energy; being part of large investment projects in Peru, participating from the base of the project, basic engineering, detail engineering, factory testing, on-site testing, start-up, commissioning, maintenance and support of instrumentation and control systems (Instrumentation, DCS ABB System 800xA 6.0 – SCHNEIDER FOXBORO Evo 6.2 INVENSYS, PLC – SIEMENS AND ROCKWELL, control loop monitoring systems with PLANT TRIAGE and communication systems - NETWORKS), always showing the ability to lead, respect, responsibility, honesty and team work.

TECHNICAL SKILLS

- Process control applied to mineral processing.
- Instrumentation (Profibus, Fieldbus, Modbus, Ethernet/IP, Device Net, OPC and Hard signal).
- Control systems (DCS, HDCS, PLC, PAC and RTU).
- Communication systems (Enterasys – FO/TCP, VLAN's, Support and Maintenance).
- Water run test, per operational test, commissioning and start up (mining, oil and energy).
- Troubleshooting & Tuning Control Loops.
- Advanced process control (IA, MPC and Fuzzy).
- Work with P&ID, PFD's, Electrical and mechanical drawings
- Coordinated vendors, contracts, consultants, and trainers in order to improve our skills.
- Commissioning strategy, plan, and execution (Copper, Lithium, Gold and Sn).
- Commissioning oxide and sulfide plants

WORK EXPERIENCE

HATCH ASOCIADOS — January 2017 – Present

MCP - Minera Chinalco - Toromocho Project Expansion – (Junín, Peru)
Lead| Op Readiness, Commissioning and Ramp-up - Control process Senior

- Pre-operational testing, commissioning and start up sequences and responsibility
- Classification of systems, subsystems and Commissioner areas, design of sequences and test circuits with water and load commissioning (500 tpd, 1000tpd, 1250 tpd, 1500 tpd, and 2300 tpd), and estimation of resources, manpower, spare parts, first fill, participation of personnel vendors and taskforce necessary for the development of the Commissioner
- Developed the commissioning plan for dry and wet area.
- Commissioning and integration all devices with System 800xA using Minerals Library.
- Improve the degree of automation of the plant (Control loops in Auto mode).
- Improve the availability of the control system for Ramp up (from 110 ktpd to 170 Ktpd).
- Integration with PI System's
- Alarm and event management (from 7500 alarms per day to 450)
- Support on PLC's - Rockwell (Pebbles Crushing, tailings thickener, blowers, Filter).
- Support on PLC's – Siemens (SAG & BALL Mill)
- Bypass (Permissive and interlocks)
- Support to Plant Operation

BHP – Minera Escondida Ltda - Laguna Seca Tailings Project (Antofagasta, Chile)
Lead | Op Readiness, Commissioning and Ramp-up - Control process Senior

- Control philosophy of Laguna Seca Tailing Strategy project using System 800xA – ABB.
- Communication and control system Commissioning plan (Pre Comm & comm)

- Develop the commissioning strategy (Schedule, Vendor support, Manpower, Commissioning strategy, control system availably, energization sequences, water test sequence, load test sequence, and hand over process).

Codelco – División Andina – Proyecto Traspaso (Valparaíso, Chile)

Lead | Op Readiness, Commissioning and Ramp-up - Control process Senior

- Health check of control system, instrumentation, and control network
- Strategy to pre commissioning 11000 signals form the control room
- Support in FAT, CAT and SAT test of Control system.
- Develop the commissioning strategy (Schedule, Vendor support, Manpower, Commissioning plan, water test sequence, load test sequence and hand over process).

Codelco – División El Teniente – Planta Tratamiento de Escoria (PTE) (Rancagua, Chile)

Lead | Op Readiness, Commissioning and Ramp-up - Control process Senior

- Health check of control system, instrumentation, and control network
- Strategy to pre commissioning 14000 signals form the control room in 2 moths (Manpower, Schedule, and Plan).
- Develop the commissioning strategy (Schedule, Vendor support, Manpower, Commissioning plan, water test sequence, load test sequence and hand over process).
- Support the water and load commissioning (Crushing, Grinding, Flotation, Tailings and Filtration process)

Mina Justa Project – Marcobre (Marcona, Perú)

Lead | Op Readiness, Commissioning and Ramp-up - Control process Senior

- Pre-operational testing, commissioning and start up sequences and responsibility
- Developed the commissioning procedure for load commissioning (Oxide Plant, sulfide Plant and BO Port).
- Meeting with vendors to improve our commissioning strategy and control philosophy.
- Support the crushing, grinding, flotation, concentration, and filter process to commissioning the sulfide plant.
- Support the leaching, solve extraction and electrowinning process to commissioning the oxide plant
- Support on FAT, CAT and SAT test of control system room and communication cabinets.
- Development the alarm and event management philosophy - HDCS system.
- Support the integration of equipment with the HDCS.

Zafranal Project – Teck Limited (Arequipa, Peru)

Specialist | Op Readiness, Commissioning and Ramp-up - Control process Senior

- Pre-operational testing, commissioning and start up sequences and responsibility
- Classification of systems, subsystems and Commissioner areas, design of sequences and test circuits with water and load commissioning (50%, 75% and 100%), and estimation of resources, manpower, spare parts, first fill, participation of personnel vendors and taskforce necessary for the development of the Commissioner
- Developed the commissioning plan for dry and wet area.

San Rafael B2 - Minsur (Juliaca, Peru).

Specialist | Op Readiness, Commissioning and Ramp-up - Control process Lead

- Development of the philosophy, Strategy and Commission plan (resources, timeline, procedures, check list, health check, capex and opex budget
- Classification of systems, subsystems and Commissioner areas, design of sequences and test circuits with water and load commissioning (50%, 75% and 100%), and estimation of resources, manpower, spare parts, Frist fill, participation of personnel vendors and Taskforce necessary for the development of the Commissioner
- Startup and ramp up planning (availability, recovery, feed rate, performance testing)
- Implementation of the Health check, schedule and budget control of the project, construction, pre-commissioning, and Commissioning stage1, developing a risk analysis of key findings and providing recommendations for actions to control impact in the Project.

- Support and accompaniment of the development of the control system (Rockwell Automation), participation in the development of the tests (FAT, CAT and SAT). Review of control logics (interlocking, permissive and control loops), optimizing the design of HMI operation screens according to ISA 101.01 standard
- Integration of equipment with Control system – Rockwell (Drum, Filter, MGS, thickener and Isamill)
- Energizing and blocking management Plan
- Management of security, environment and quality of the commissioning process.

Albemarle - Salar de Atacama (Antofagasta, Chile)

Specialist | Op Readiness, Commissioning and Ramp-up - Control process Lead

- Design of the Commissioning strategy of the Bischofita and carnallite plant to produce lithium by the evaporation process
- Developed the sequences of commissioning.
- Make a Plan to improve the automation level of the process.

Las Bambas Mining - MMG Limited (Apurimac, Peru)

Specialist | Process control and DCS - Control process Specialist

- Support to the Process Control team in the new signal Commissioner, optimization of control logics, development of the interlocking and permissive matrix
- Improvement of typical motor and valve control
- HMI Design
- Alarm system Configuration and alarm classification philosophy
- Configuring Remote I/O PAC T2550
- Support and monitoring of FCP 280y FCP 270 controllers around the plant
- Support in the analysis and stability of the MESH control network

SCHNEIDER ELECTRIC April, 2014 – December, 2016

Las Bambas Mining - MMG Limited (Apurimac, Peru)

Services Lead Engineer

- Service maintenance and support of the process control system at the software and hardware level, providing support in DCS INVENSYS - Control Core Services (IA) 9.2 and Foxboro Control Software 6.3, PAC - I / O Remotes, Eycon - SCADAS remotes, communication at the level of NETWORKS-Switches, field device communication (Modbus, Fieldbus, Profibus and HART), installation of operation stations, Analysis of OPC communication, Historian Server and communication analysis between the DCS and software third parties (PI System, Plantriage, smart synclone, SPLIT graphics analysis system, FLSmith expert grinding systems, METSO expert tailings systems and the online PSM particle analysis system), thus ensuring the correct functioning of control system and complying with safety, health and environmental standards.

Antapaccay Mining – Glencore (Apurimac, Peru)

Services Lead Engineer

- Maintenance about all Control System: DCS IA 8.8 & Foxboro Control Software 4.0.4 , PACs, Eycon's, Status Communication - Switches, Field Device Communication, check the communication OPC, Historian Server and Recollected Data and check the status to connection from DCS to PI System, Re-Design the system definition about control system, Inspection the status about de JBF and JBP, and configure or modify the control logic if was necessary.

INVENSYS PROCESS SYSTEMS June, 2012 – March, 2014

Oleoducto de Pucallpa – Duke Energy (Pucallpa, Peru).

Control Systems Engineer

- Support Engineer of Wonderware system Platform 2014R2- SCADA, installation, configuration, commissioning and start-up of new SCADA and CONTROL system by FOXBORO RTU SCD5200,
- Supervision to implement the leak detection systems by ATMOS INTERNATIONAL- Costa Rica and design a satellite redundant network protocol to configure a redundant IO Remote on system Platform.

Gasoducto del Sur – Energía Bogotá Contugas (Ica, Peru).
Application Engineer

- Support Engineer of Wonderware system Platform - SCADA, installation, configuration, commissioning and start-up of new system that supervise platforms. It was used OPC servers, Modbus TCP IP, Serial & RTU, EtherNet/IP protocols to communicate with TRICONEX TriGP PLC´s, Himatrix PLC's and PAC's for FOXBORO, and development of changes requested by the client in the control and supervision system.
- Instrumentation and Control Systems Engineer, design specifications, control system architectures, P&ID. Also, preparation of instrument data sheets, wiring schematics, loop diagrams, schedules, sizing calculations, FAT, CAT and SAT tests. And Installation, calibration, configuration, tuning, commissioning and start-up of field instruments (pressure, level, flow, temperature and Fire &Gas system.), Human Machine Interfaces (HMI - SCADA), Automatic Reports, SCADA WEB, development of control and safety logic, Emergency Shut Down, Intrusion detection system.
- Design, engineering and implementation of the energy backup system (UPS)

TRAINING COURSES

- Peru 2020, ABB System 800xA 6.0 Engineering and Configuration using Mineral Library
- Peru 2017, HATCH, Control Fundamentals and Methods for Troubleshooting & Tuning Control Loops.
- Perú 2016, SCHNEIDER ELECTRIC, Sensibilización hacia la ergonomía.
- Perú 2016, SCHNEIDER ELECTRIC, Resolving tension using the DESC method.
- Perú 2015, SCHNEIDER ELECTRIC, Ad Hoc Cross Functional.
- Costa Rica 2015, ATMOS INTERNATIONAL, Leak Detection Systems.
- Perú 2015, SCHNEIDER ELECTRIC, Foxboro EVO Configuration Essentials.
- Colombia 2015, ISA, Feria internacional V Automatisa.
- Perú 2014, PROYECTA - UNI, Project Management.
- Perú 2013, LIMA VALLEY, 4° STARTUP ACADEMY.
- Perú 2013, CTIC - UNI, Control System processing in real time.
- Perú 2013, CCFIM - UNI, Expert in computer assembly.
- Perú 2013, IPAE, IV National Young Innovators.
- Perú 2012, SENATI, Automation and Control systems.

EDUCATION

Universidad Nacional de ingeniería – B.sc in Mechatronic Engineering **2008 – 2012**
Relevant coursework in Control systems, develop apps, automation, and control

LANGUAGES

English (intermedium) Spanish (Native) Portuguese (Basic)

ADITIONAL INFORMATION
SOFTWARE

- **Office**
  Microsoft office 2016 (word, excel, power point)
  Microsoft Visio 2015
  Microsoft Project 2016
  Open Project
  Risky Project
  WBS Chart Pro
  Pert Chart Expert 2.8

- **Design**
  AutoCAD 2017
  Solidworks 2017

- **Engineering**
  Matlab 2017
  Labview 2017–NATIONAL INSTRUMEN
  Simatic Step 7–SIEMENS
  TIA portal V14 – SIEMENS
  ABB System 800xA 6.0
  TriStation TriGP – TRICONEX
  Foxboro IA Series 8.7-8.8.
  Foxboro Control Software 9.2
  Foxboro Evo 6.3
  Foxboro PAC A2

System Platform 2014 R2 – SCHNEIDER ELECTRIC.
InTouch 2014 R2 - SCHNEIDER ELECTRIC.
Information Server 2014 R2- SCHNEIDER ELECTRIC.
InTouch access anywhere 2014R2 - SCHNEIDER ELECTRIC.
Modicon M241 - SCHNEIDER ELECTRIC.
SoMachine 4.0 - SCHNEIDER ELECTRIC.
KepServer EX 6.1
MatriKonOPC.
Symantec Backup EXET 2016

PERSONAL REFERENCE

- Ing. Sergio Palacios. – Delivery Manager
  Company: Schneider electric
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  Sergio.palacios@schneider-electric.com

- Ing. Julio Palomino – Superintendent Molybdenum plant
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