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# *Curriculum Vitae*

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## *Personal Data*

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## *Summary*

Currently I am working as Project Engineer in Hudbay Minerals since June 1<sup>st</sup>, 2012. We are developing Constancia Project; this is a Copper and Molybdenum concentrator. Before, I worked as senior engineer in Automation, Telecommunications and TI areas, in Southern Peru Copper Corporation, it is a mining enterprise, we were developing the Tía María Project, which is a hydrometallurgy plant for the production of copper cathode LME grade. Before that, I worked in a concentrator and hydrometallurgy plants around ten years. I have fifteen years of experience in mining and industrial companies, I managed projects and I have successfully projects execution.

I have an electronic engineer degree from Pontificia Universidad Católica Del Perú, which is one of the best universities in Perú; I have a degree of specialization in Project Management and Quality. Among my current responsibilities is the effective project management, team work manage, engineering definitions, review and approval jobs and procedures, budget control, planning tasks, planning and implementation projects, coordination and accomplish the maintenance and production goals and KPI.

I have the ability to lead groups; I have experience in construction, commissioning and startups in mining and industrial companies.

I managed automation projects for mining and industrial companies as Tintaya, Cerro Verde, Antamina, Southern and others.

I like to work as a team; I am collaborative, efficient, honest, loyal, thoughtful, innovative and practical. I'm ready for changes and new challenges, I like learning and I have enough tolerance to work under pressure. I own and I'm aligned with the standards of safety, health, environment and quality standards. ISO 9000, ISO 14001 and OHSAS 18001

I have knowledge in DCS and PLC systems, instrumentation, electrical, process, information technologies, programming languages and construction areas.

## *Professional Experience*

- Since June 2012      **Hudbay Minerals**  
Senior Project Engineer  
Constancia Project
- ❖ Early Works Construction: Two sites, one for 600 people and the other for 2600 people. Both sites have House Power, PTAP, PTAR, Facilities and Bedrooms.
  - ❖ Plant Construction: Copper and Molybdenum Concentrator for 70k TMPD. Tailings Facilities.
- 01/2012 – 05/2012      **Sinclair Knight Merz SAC**  
Engineer Chief  
Automation, TI y Telecommunications
- ❖ Proyecto Nuevo Traspaso – Codelco Andina
  - ❖ New Truck Shop – Toquepala - SPCC
- 07/2011 – 01/2012      **Southern Peru Copper Corporation**  
Senior Project Engineer  
Cuajone Expansion Project  
Power Line Transmission 220 kV / 100 MVA.
- 04/2008 – 06/2011      **Southern Peru Copper Corporation**  
Senior Engineer in Instrumentation, Control, Telecommunications and TI  
Tía María Project
- ❖ Basic and Detailed Engineer Involved with three engineering houses SKM (FLS), OUTOTEC and ARA-WP in Santiago de Chile. June 2008 to April 2010.
  - ❖ Review and Approval of engineering drawing and documents.
  - ❖ Review and Define of Design Criteria, Concept and Technical Specifications.
  - ❖ Review, make and approval of materials and equipment request for the new plant.
  - ❖ Coordination with stakeholders. Maintenance and Operations Managers.
  - ❖ Review and Comments of engineering drawing and documents for disciplines Process, P&ID, Mechanic and Electricity.
  - ❖ Review of CAPEX and OPEX.
  - ❖ Participation in HAZOP workgroup.
  - ❖ Design, make and approval of Technical Specifications and Request document for Telecommunications and TI.
  - ❖ Participation in FAT for Wet Area Control System, Invensys System.
- 10/2005 – 12/2007      **Sociedad Minera Cerro Verde S.A.A.**  
Engineer Supervisor in Copper Concentrator and Hydrometallurgic Plant.

- ❖ Participation in Detailed Engineer in Fluor Canada (Vancouver).
- ❖ Review Engineering drawing and Documents for Instrumentation, Process, P&ID, Mechanic and Electricity Disciplines.
- ❖ Participation of the Honeywell control system configuration.
- ❖ Participation in FAT (Calgary, Canada) and SAT of Honeywell Control System.
- ❖ Participation in process simulation test in Vancouver, Canada.
- ❖ Participation in commissioning and start-up of the Primary Sulfide Concentrator.
- ❖ Automation Project Define for the Leach Pad, Secondary Sulfide.

02/1999 – 09/2005

**Asea Brown Boveri S.A.**

Projects and Services Chief, I managed:

- ❖ Sulfide Concentrator Plant Automation for Xstrata Tintaya. Symphony – Harmony - System800xA Platform. Investment 1.4M USD.
- ❖ Operator and Engineer workstation upgrade, whit program and communication migrate for SPCC Cuajone Concentrator. Symphony – Harmony Platform. Investment 250k USD.
- ❖ Sulfide Storage Plant Automation for Sociedad Minera Cerro Verde. AC800F and DigiVis Platform. Investment 350k USD.
- ❖ Sub Station Automation for Compañía Minera Antamina. Control System and Telecommunications. PLC ABB, SCADA Intellution and Radio Link Platform.

As Project and Services Engineer, I participated and developed the following:

- ❖ System Configuration for Primary Crusher in Toquepala Concentrator for Southern Peru Copper Corporation. Symphony – Harmony Platform.
- ❖ System Configuration, Commissioning and Start-Up plant in Coal Plant Automation from Cementos Lima. PLC ABB and SCADA Intellution Platform.
- ❖ Project Upgrade in C.H. Cañón Del Pato (Hydroelectric Plant) from Egenor. Advant Control – Advasoft Platform.
- ❖ Service Engineer in Commissioning and Start-Up Plant in Copper Concentrator Plant for Compañía Minera Antamina S.A. Symphony – Harmony Platform.
- ❖ Service Engineer in Commissioning and Start-Up Plant in Thermoelectric Plant ILO 2 for Enersur. Symphony-Harmony Platform.

## *Higher Education*

- Projects and Quality Management Specialization.  
Pontificia Universidad Católica del Perú.  
January to December 2007
  
- Electronic Engineer Degree.  
Pontificia Universidad Católica del Perú.  
August 1988 to December 1996
  
- Other Training Courses:
  - ❖ Ideas Simulation Training  
Ideas Simulation & Control, Richmond, BRITISH COLUMBIA, CA  
From 20 to 23 of February, 2006
  
  - ❖ EXP03R210 – Experion PKS Graphics Design and Building  
ACS Global Learning – Honeywell Automation College, Duluth, GEORGIA, USA  
From 14 to 17 of November, 2005
  
  - ❖ EXP02R210 – Experion PKS Server Engineering and Configuration  
ACS Global Learning – Honeywell Automation College, Phoenix, ARIZONA, USA  
From 07 to 11 of November, 2005
  
  - ❖ EXP20R210 – Experion PKS Control Execution Environment C200, ACE  
ACS Global Learning – Honeywell Automation College, Phoenix, ARIZONA, USA  
From October 31 to November 4, 2005
  
  - ❖ Expert Training in System 800xA  
ABB Automation Inc. Wickliffe, OHIO  
From 10 to 15 of February, 2005
  
  - ❖ Advant Controller 31 with software 907AC1131  
ABB Stotz-Kontakt GmbH, Heilderberg, Germany  
From 10 to 14 of September, 2001
  
  - ❖ Sales and Sales Support Training  
ABB Automation Inc. in Aurora, OHIO  
From 11 to 15 of September, 2000
  
  - ❖ CONDUCTOR NT Configuration Course  
ABB Automation University in Cleveland, OHIO  
From 6 to 16 of December, 1999
  
  - ❖ INFI90 OPEN Process Control Unit Course  
ABB Automation University in Cleveland, OHIO  
From November 29 to December 3, 1999
  
  - ❖ Satt Control in Sao Paulo, Brazil  
Alfa Laval Automation  
From 7 to 11 of December, 1997

- Other relative courses:
  - ❖ Specialization Course in Project Management, Innovation Management, Intelligent Control, Voice over IP Network, Broadband Technology Networks.  
Pontificia Universidad Católica Del Perú
  - ❖ English Course  
Asociación Cultural Peruano Británico  
Inter-medium Level
- Other domains
  - ❖ Utility Software like Microsoft Office (Word, Excel, Power Point, Access, Visio).

### *Other Activities*

- Professional Specialization Program Teach.  
In Tecsup, Arequipa  
September to October, 2006.
- Information Technologies Seminary Exponent.  
In Tecsup, Arequipa  
November 2006.
- DCS and Data Adquisition by OPC Exponent.  
In Tecsup, Arequipa  
December 2002.
- Conductor NT Course Teach.  
Minera BHP Tintaya S.A.  
January 2000
- Industrial Automation in Perú Seminary Exponent.  
Universidad Nacional de Ingeniería  
January 22, 2000
- Pontificia Universidad Católica del Perú, test chief for the following courses:
  - Ingeniería Electrónica
  - Resistencia de Materiales 1A
  - Elementos de Ingeniería Biomédica
  - Teoría de Control 1
  - Diseño Electrónico 1
  - Electricidad Industrial
  - Sistema de Comunicaciones