EDGARD ALEGRIA CHIESA 51 YEARS OLD

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SENIOR HYDROMETALLURGY ENGINEER

Professional with 25 years of experience in the mining industry, I held the following positions: Shift Head, Plant Metallurgist, Specialist Engineer, Lead Process Discipline, Project Engineer and Consultant.

I have worked in Brownfield and Greenfield projects, with experience in Brownfield project, that is, projects developed on metallurgical plants in operation. I also have experience in mining companies as operation engineer and senior metallurgic engineer.

My goal is to get a job that allows me to use my skills, knowledge and experience in the mining industry to be a part of integrate mining, technology and engineering companies. Identifying improvements and giving creative and economical solutions.

ABILITIES

- 1. Knowledge and experience in proposal development. Supporting in technical subjects such as customer requirements at site, scope definition, hours estimation, strategies and implementation plan of project, schedule, etc.
- 2. Knowledge and experience in design and process engineering for all stage in cycle life project, from conceptual study until start up plant.
- 3. Knowledge and experience in stating of metallurgical proceses, sizing of equipment and installation plants, trade-off studies, economical evaluation, PFD, P&ID, Hazop, Opex, documents and typical activities.
- 4. Vast knowledge of metallurgical processing plants in Chile and I have a great network.
- 5. I have knowledge and experience in operations in mining companies, production and metallurgical improvement, copper quality definition and sale management and attendant of final costumer.

SUCCESS - PROJECTS

- 1. Successful project development attaining getting and overcoming customer expectations.
- 2. Bring new business through proposal with creative solutions and showing knowledge of customer operations, specifically Brownfield projects.
- 3. Promote and reinforce services for the last stage of the projects such as: commissioning activities, operation manuals, training and start up plant.

SUCCESS - OPERATION PLANT

- 4. Permanent compliance of production projections and without complaints about copper quality by the end customer.
- 5. Implementation of quality system to classify several commercial products.
- 6. Implementation of information system in real time (1998) to make a daily plan report and metallurgical balance.
- 7. I was the Engineer responsible for process of certification for the trademark registered in LME and COMEX.

PROFESSIONAL EXPERIENCE

2017- Present WSP - Chile

Currently I am performing the role of Mining Process Consultant, developing Brownfield projects for mining companies and supporting the development of service proposals.

2007-2016 FLUOR Chile

Lead Process Engineer for Greenfield and Brownfield projects. Also development of services proposals focused in Brownfield projects.

1996-2002 SCM EL ABRA

Metallurgical Engineer responsible for the production plan, quality and sale of final products. Development activities for metallurgical and technical improvements as well.

1994-1996 SM PUDAHUEL

Shift leader process plant.

ACADEMIC FORMATION

1989-1993 Metallurgical Engineer

1999-2002 Industrial Engineer

2004-2006 Master - Minerals Economic (candidate)

CHARACTERISTIC

Confident
Independent
Loyal
Motivated
Friendly
Flexible

SKILLS

Well communicator
Positive attitude
Writing ability
Analytic
Focused and methodical
New Challenger

LANGUAJES

Native Spanish
English in progress
(intermediate level)

PERSONAL REFERENCES

Velko Suvic Past Mining Manager, WSP Chile velko.suvic@wsp.com

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Carlos Esguerra Corporate Engineering Manager, FLUOR Chile carlos.esguerra@fluor.com

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Rene Canello Past Plant Manager, SCM EL ABRA rene@canello.org

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Company	Project	Service	Capacity	Role	Capex US\$	Year
Codelco CHILE Gaby	Greenfield: "Gaby, Oxide Plant".	Detail Engineering and Training	150 ktpy Copper	Specialist Engineer	1.300.000.000	2007
	Brownfield: "Expansion Gaby II, Oxide Plant".	Detail Engineering	To 170 ktpy Copper	Lead Process	190.000.000	2008
Doña Inés de Collahuasi	Brownfield: "Expansion of the Crushing Plant, Oxide Plant".	Factibility Study	from 22 to 30 ktpd ore	Specialist Engineer	50.000.000	2008
BHP Minera Escondida	Brownfield: "Encrease Capacity, Oxide Plant".	Conceptual and Prefactibility Study	380, 440, 480 and 530 ktpy Copper	Lead Process	500.000.000	2008/2009
Glencore Lomas Bayas	Brownfield: "Expansion of Capacity, Oxide Plant".	All Service more, Construction, Commisioning, Start up and Training	from 63 to 75 ktpy Copper	Lead Process	70.000.000	2007/2008
	Brownfield: "Extension Life of Mine II, Oxide Plant".	All Service more, Construction, Commisioning, Start up and Training	75 ktpy Copper	Lead Process	290.000.000	2009/2011
Antofagasta Minerals	Greenfield: "Antucoya Project, Oxide Plant".	Detail Engineering	80 ktpy Copper	Lead Process	1.900.000.000	2011/2012
Barrick Pascua Lama	Greenfield: "Treatment Water Plant, Lama Area".	Conceptual Study	-	Specialist Engineer	-	2013
Codelco CHILE Andina	Brownfield: Review of "Detail Engineering Concentrator Phase I".	Detail Engineering	90 ktpd Ore	Specialist Engineer	980.000.000	2010
AngloAmerican	Brownfield: "Slags Flotation Plant, El Soldado".	Prefactibility Study	2,2 ktpd Slags	Specialist Engineer	100.000.000	2013
	Browfield: "Stay in Business, Project Group to Los Bronces, Confluencia, Las Tórtolas, El Soldado and Chagres".	All Service	-	Lead Process	50.000.000	2013/2015
Teck Quebrada Blanca	Brownfield: "Improvement of Hidrometallurgical Process Plant".	Detail Engineering	80 ktpy Copper	Lead Process	165.000.000	2015/2016
Codelco CHILE Chuquicamata	Brownfield: "Thermal and Services Plant, Concentrator and Smelting Plant".	Prefactibility Study	-	Lead Process	-	2017
	Brownfield: "Operational Reliability Primary Crushing System to Mineral from New Underground Mine".	Conceptual Study	180 ktpd Ore	Lead Process	-	2017
	Brownfield: "Preparation and Distribution, New Lime Plant".	Factibility Study	173 ktpd Lime	Lead Process	10.000.000	2017
	Brownfield: "Handling and Standardization of Metallurgical Dust, Smelting Plant".	Detail Engineering	288 tpd Dust Metallurgical	Lead Process	10.000.000	2017/2018
SQM CHILE Planta Coya Sur	Brownfield: "Production of Nitrate Salts".	Detail Engineering	2,5 ktpd Ore	Lead Process	100.000.000	2018
Codelco CHILE El Teniente	Brownfield: "Thickener Improvement Study, Molibdeno and Copper Process Plant".	Conceptual Study	4.800 tpd Copper Concentrate	Lead Process	10.000.000	2019