

MS. Eng° LUIGGI DOMENICO SASSARINI VERGARA

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BRIEF INTRODUCTION



Engineer Luiggi Sassarini is a prominent figure in the mining sector whose extensive expertise is rooted in a robust educational foundation. He has advanced degrees from the Colorado School of Mines and the University of Arizona. Known for his innovative drive and leadership, he is dedicated to elevating the industry through research and pedagogy. His global exposure, with technical tours across several countries, informs his leadership in fostering operational excellence and sustainable mining practices. His profile is a beacon of advancement in asset management and operational optimization.

EDUCATION

COLORADO SCHOOL OF MINES Engineering and Technology Management, Master of Science	2009-2010 Colorado, USA
THE UNIVERSITY OF ARIZONA Mechanical Engineering, Bachelor of Science	1998-2000 Arizona, USA
INSTITUTO TECNÓLOGICO SUPERIOR TECSUP #1 Professional Technician in Heavy Machinery Maintenance	1994-1996 Lima, Perú

SPECIALIZATIONS AND RELEVANT COURSES

- National Reality Program, University of Piura, Lima, Peru, 2023
- National Reality Program, University of Piura, Lima, Peru, 2017
- General Management Program, University of Piura, Lima, Peru, 2014
- TapRoot Incident Investigation & Root Cause Analysis, Lima, Peru, 2014
- Air Conditioning Unit Equipment for Mines, Potchefstroom, South Africa, 2011
- Mining Certification Course, ISEM, Uchucchacua, Peru, 2007
- Lider and Services, SANDVIK, Sao Paulo, Brazil, 2004
- Mining Safety MSHA, West Virginia, USA, 2002
- Development of Managerial Competencies, ESAN, Uchucchacua, Peru, 2001
- Texas Tech University English Program, ESL, Lubbock, Texas, USA, 1997

SCHOLARSHIPS, HONORS, AND MENTIONS

- Honorary speech at the graduation Ceremony of UPN University at Cajamarca 2023
- Member of the Technical Committee for Standardization of Brakes, Clutches, and their parts
- Member of the Advisory Committee for Mechanical Engineering at San Ignacio de Loyola University
- Official Representative of the Technical Committee for Standardization of the technical standard EM070 for mechanical transport, Ministry of Housing of Peru
- First place in the T2T (time to Talk) semester competition at UTEC, presenting the new proprietary teaching methodology titled "Knowledge Management"
- Winner of the Innóvate Perú competition (PITEI-5-092-019-16) to receive research and development funding from the government
- Scholarship for Master's studies at Colorado School of Mines funded by Cia. de Minas Buenaventura
- Plaque of recognition for outstanding performance at Sandvik, 2005, 1st Place in the Leader and Services Course at Sandvik, Sao Paulo, Brazil, 2004
- Honors speech at the graduation ceremony of the Prom 97-II and as an alumnus in 2003-II at Tecsup

PROFESSIONAL EXPERIENCE¹

Founding Director and Senior Consultant, ETM Soluciones SAC, Peru 2015-Present

- ✓ Lead the development and implementation of innovative engineering solutions for complex problems in the industrial and mining sectors.
- ✓ Provide strategic guidance to clients in maximizing operational efficiency, optimizing maintenance processes, and improving asset performance.
- ✓ Collaborate with multidisciplinary teams to deliver tailored solutions that meet client requirements and drive sustainable growth.

CEO Managing Director - CEO, Reliant Drilling Private Limited, India, 2021-2023

- ✓ Oversaw the overall operations and strategic direction of the company, driving growth and achieving long-term business objectives.
- ✓ Implemented efficient processes and best practices to enhance productivity and ensure high-quality deliverables to reach monthly target.
- ✓ Built and maintained strong relationships with key stakeholders, including clients, partners, and regulatory authorities.

Director of General Maintenance, Compañía de Minas Buenaventura, Peru 2001-2003 & 2005-2015

- ✓ Directed the maintenance department, overseeing the planning, execution, and optimization of maintenance activities.
- ✓ Implemented innovative maintenance strategies to improve asset reliability, reduce downtime, and enhance operational efficiency.
- ✓ Led a team of maintenance professionals, providing mentorship, training, and guidance to drive high performance and continuous improvement.

Workshop Manager, Sandvik Peru SA, Perú 2003-2005

- ✓ Restructured equipment repair process to meet increased demand, resulting in a significant sales increase from US \$2,000,000 to US \$3,000,000 per year.
- ✓ Implemented pre-professional training program, attracting new technicians and improving productivity without increasing labor expenses.
- ✓ Created Administrative area in Workshop, improving repair quality, reducing warranty claims by 10%, and allowing supervisors to focus on technical aspects.

¹ the last position reached in the company is considered.

LECTURE EXPERIENCE

Part-time Professor, National Engineering University (UNI).

Perú 2020-2024

- ✓ Taught courses on "operations management and supply chain management" and "seminar on innovative maintenance problems and proposals" in the master's program.
- ✓ Provided students a comprehensive understanding of operations management principles, supply chain optimisation, and innovative maintenance strategies.
- ✓ Engaged students in critical thinking, problem-solving, and research activities to foster a deep understanding of the subject matter.

Head of mechanical engineering, San Ignacio de Loyola University (USIL), Perú 2018-2019

- ✓ Led the mechanical engineering program, overseeing curriculum development, faculty management, and student mentoring.
- ✓ Designed and implemented innovative educational initiatives to enhance students' technical skills and industry readiness.
- ✓ Fostered a culture of innovation and entrepreneurship among students, encouraging them to develop creative solutions to real-world engineering challenges.

Associated Professor, University of Engineering and Technology (UTEC),

Perú 2014-2017

- ✓ Developed the maintenance mention for mechanical engineering students, providing specialized knowledge in maintenance engineering.
- ✓ Delivered engaging lectures, facilitated interactive discussions, and guided students in hands-on projects and research work.
- ✓ Mentored students in developing critical thinking skills, problem-solving abilities, and a strong foundation in maintenance practices.

CONFERENCES AND SEMINARS

- Autor, SILVER JUBILEE CELEBRATION 2023:
"Embracing AI & Automation: The Challenges Faced by Underground Mining" in Udaipur, India.
Discussed the challenges of implementing these Technologies in underground mine
- Autor, MINEXCELLENCE 2021:
"Impact of Sensitivity Analysis on the Critical Path of a Rehabilitation Project for a Shaft" in Peru.
Discussed the importance of sensitivity analysis in project management and its impact on the efficiency and success of rehabilitation projects.
- Co-Autor, MINEXCELLENCE 2020:
"Improvement to the Sizing of Compressed Air Supplying Network Methodology in Mining Operations at High Altitude" in Chile.
Shared insights on optimising compressed air systems to enhance operational efficiency and mitigate challenges in high-altitude mining environments.
- Autor, PERUMIN 33 Convention:
"The Best Decision: RAMP Versus Vertical" in Artequipa, Peru, in 2017.
Explored the advantages and considerations in selecting the most suitable mining access method, comparing ramps and vertical shafts.

- Autor, **MAPLEMIN 2016:**
"Deformation due to Instability in the Drum Cylinder of Hoisting Winches in Underground Mining"
 in Lima, Peru.
 Shared insights on identifying and addressing deformation issues in hoisting winches, ensuring safe and efficient mining operation

- Autor, **IPEMAN 15VO PERUVIAN CONGRESS OF MAINTENANCE ENGINEERING 2015:**
" Inhouse maintenance, an economical alternative in an outsourced world" in Lima, Peru.
 Shared: The benefits of controlling equipment maintenance in underground mining and the impact of the equipment's CAPEX on the MDO models are analyzed.

INTERNSHIP EXPERIENCE

La Granja Mining Project, MDH-Brailey Diamond Drill Mechanic Intern	Cajamarca, Peru	01-03/1997
Mantos Blancos Mining Company Diamond Drill Mechanic Intern	Antofagasta, Chile	01-03/1996
Transportes 77 Truck Mechanic Intern	Lima, Peru	07-08/1995
Geotec S.A Diamond Drill Third-Level Mechanic	Lima, Peru	01-03/1995