# PHD. ING. WILLIAMS GONZALES MAMANI

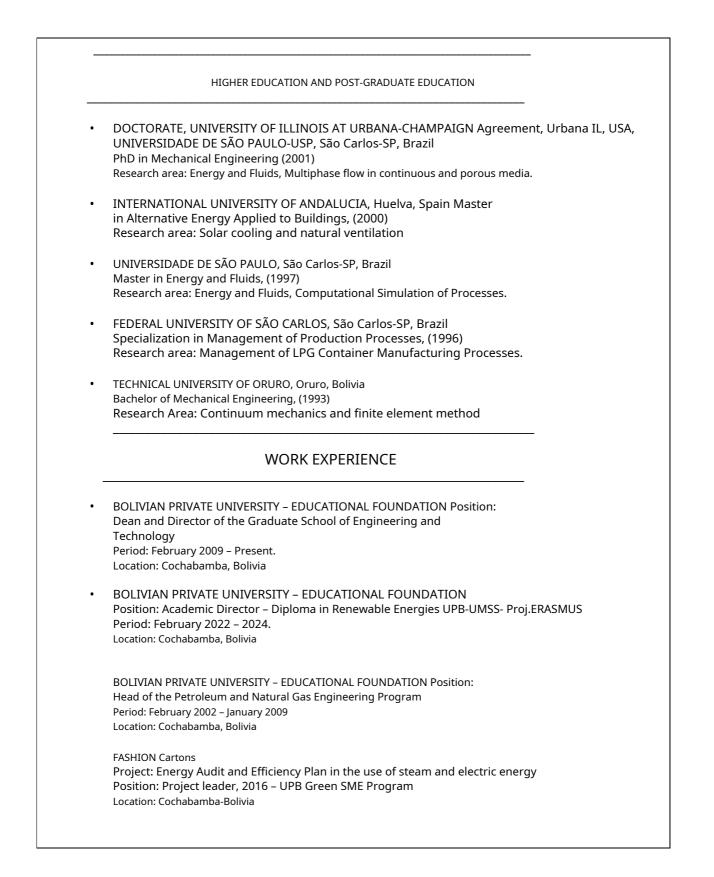
DOCTOR IN MECHANICAL ENGINEERING - ENERGY AND FLUIDS AREA Agreement between the University of Sao Paulo-Brazil and the University of Illinois UC-USA MASTER'S DEGREE IN RENEWABLE ENERGIES APPLIED TO BUILDINGS International University of Andalusia – Spain MASTER IN MECHANICAL ENGINEERING - ENERGY AND FLUIDS AREA University of Sao Paulo-Brazil MBA SPECIALIZATION IN INDUSTRIAL PRODUCTION MANAGEMENT Federal University of Sao Carlos - Brazil

Contact address: COCHABAMBA: Araona Street #1436 Sarco Neighborhood - Cochabamba Phone: +591 4 4019087 Cell phone: +591 71462912 E-mail:wgonzales@upb.edu Current position: Dean of the Graduate School of Engineering and Technology at the Bolivian Private University National Engineer Registry - RNI-SIB - 6347



## SKILLS AND PERSONALITY - SKILLS

- Experience in the development, marketing, management and execution of academic training projects at the level of courses, diplomas and master's degrees.
- Experience in management, direction and execution of conceptual, basic and detailed engineering projects oriented to the industry, as well as research, application and development (R&D&A) in projects in the energy area
- Relationship with international companies and institutions linked to the energy sector and member of professional associations linked to the sector (SPE, ASME, ASHRAE)
- Experience in engineering consulting for projects in treatment plants, transportation and storage systems for liquid and gaseous hydrocarbons, generation of electrical energy in thermal power plants and from renewable sources (wind, photovoltaic and geothermal), as well as energy efficiency and audit projects in industries through the GreenPyme program.
- Specialized consultancy in the real estate construction sector for the application of bioclimatic architecture (natural lighting, energy efficiency, passive heating, evaporative cooling, natural ventilation)
- Experience and knowledge of project management by methodology *Front End Loading* of the *Project Management Institute (PMI), lean construction* and the application of Integrated Management Systems within the framework of the management strategy for the development of a company or project.
- Knowledge of the legal and regulatory framework, codes and standards of the energy sector that regulate activity in the energy sector and the real estate and architecture construction sector.
- Entrepreneurial spirit, commitment to the company and continuous improvement, motivating teamwork and interpersonal relationships, respecting the company's strategic development policies.
- Ability to work under pressure, with a proactive attitude and always in search of results. Behavior based on respect, professional ethics and awareness of sustainable business development.



	<ul> <li>AIR CONDITIONING AND REFRIGERATION CENTER (ACRC-Urbana, Illinois)</li> </ul>
	University of Illinois at Urbana-Champaign
	Activity: Researcher in the area of Energy and Refrigeration.
	Period: 2000 and 2001.
	Location: Urbana-Champaign, Illinois-USA.
	ELECTRO AUTO S.A.
	Company Air Conditioning Systems for SEAT Ibiza Vehicles
	Position: Capacitor Research and Development Engineer for SEAT IBIZA vehicles. Period:
-	January to May 2000.
I	Location: Madrid, Spain.
	ENERGY AND FLUIDS ENGINEERING LABORATORY
ſ	University of Sao Paulo
	Activity: Researcher in the Area of Energy and Refrigeration.
	Period: July 1996 to September 2001. Location: Sao Carlos-Sao
	Paulo, Brazil.
	SANITARY PORCELAIN JEIS
	Porcelain and Ceramic Floors Factory
	Position: Superintendent of the Manufacturing and Construction Project of the Ceramic Floor
	Plant (sheds, mills, silos, baking and drying ovens, conveyor belts, buckets, natural gas
	measurement bridges, combustion systems, atomizer). Period: 1994 to 1995
	Location: Cochabamba, Bolivia.
	STEEL INDUSTRIAL COMPLEX
	Factory of Steel Cylinders for Liquefied Petroleum Gas (LPG)
	Position: Lead Engineer for pressure vessel projects according to ASME VIII Div.1 and ASME IX. Design
	and construction of annealing furnaces, Design and Construction of rolling mills.
I	Period: 1993-1994
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I	Period: 1993-1994 Location: Cochabamba, Bolivia
- - -	Period: 1993-1994 Location: Cochabamba, Bolivia ACADEMIC EXPERIENCE  BOLIVIAN PRIVATE UNIVERSITY,
- - -	Period: 1993-1994 Location: Cochabamba, Bolivia ACADEMIC EXPERIENCE
- - -	Period: 1993-1994 Location: Cochabamba, Bolivia ACADEMIC EXPERIENCE • BOLIVIAN PRIVATE UNIVERSITY, Manager and Academic Director of the following diploma and Master's programs:
- - -	Period: 1993-1994 Location: Cochabamba, Bolivia ACADEMIC EXPERIENCE • BOLIVIAN PRIVATE UNIVERSITY, Manager and Academic Director of the following diploma and Master's programs: Master of Science in Petroleum and Natural Gas Engineering
- - -	Period: 1993-1994 Location: Cochabamba, Bolivia ACADEMIC EXPERIENCE • BOLIVIAN PRIVATE UNIVERSITY, Manager and Academic Director of the following diploma and Master's programs:
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•	Period: 1993-1994 Location: Cochabamba, Bolivia ACADEMIC EXPERIENCE • BOLIVIAN PRIVATE UNIVERSITY, Manager and Academic Director of the following diploma and Master's programs: Master of Science in Petroleum and Natural Gas Engineering Master of Electrical Engineering and Energy Master's Degree in Maintenance Engineering and Industrial Productivity Master in Productivity and Quality Master in Control Engineering, Instrumentation and Automation Master in Engineering and Technology Management (focused on 8 industry sectors) Master in Business Administration and Management for Oil & Gas Industry Master in Business Administration and Management for Civil Construction and Real Estate
•	Period: 1993-1994 Location: Cochabamba, Bolivia ACADEMIC EXPERIENCE • BOLIVIAN PRIVATE UNIVERSITY, Manager and Academic Director of the following diploma and Master's programs: Master of Science in Petroleum and Natural Gas Engineering Master of Electrical Engineering and Energy Master's Degree in Maintenance Engineering and Industrial Productivity Master in Productivity and Quality Master in Control Engineering, Instrumentation and Automation Master in Engineering and Technology Management (focused on 8 industry sectors) Master in Business Administration and Management for Civil Construction and Real Estate Master in Business Administration and Management for Civil Construction and Real Estate Master in Business Administration and Management for Telecommunications & Networks
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•	Period: 1993-1994 Location: Cochabamba, Bolivia ACADEMIC EXPERIENCE • BOLIVIAN PRIVATE UNIVERSITY, Manager and Academic Director of the following diploma and Master's programs: Master of Science in Petroleum and Natural Gas Engineering Master of Electrical Engineering and Energy Master's Degree in Maintenance Engineering and Industrial Productivity Master in Productivity and Quality Master in Productivity and Quality Master in Control Engineering, Instrumentation and Automation Master in Engineering and Technology Management (focused on 8 industry sectors) Master in Business Administration and Management for Civil Construction and Real Estate Master in Business Administration and Management for Telecommunications & Networks Master in Business Administration and Management for Integrated Business Management Systems Diploma in Lean Six Sigma and Continuous Improvement in Industry and Business

- Diploma in Industrial Automation, Control, Intelligent Systems and IoT.
- Diploma in Safety, Environment and Occupational Health Engineering
- Diploma in Engineering and Technology of Electrical Distribution Systems and Smart Grids
- Diploma in Digital Architecture and BIM applied to Construction
- Diploma in Bioclimatic Architecture and Energy Efficiency
- Diploma in Engineering, Operation and Maintenance of Thermoelectric Power Plants
- Diploma in Electrical Power Systems Engineering
- Diploma in Technology and Management in Generation, Transmission and Distribution of Electric Energy
- Diploma in Engineering and Technology for Hydrocarbon Exploration and Production
- Diploma in Petroleum and Natural Gas Engineering
- Diploma in Petroleum and Natural Gas Technology and Management
- Diploma in Simulation and Optimization of Processes in the Hydrocarbon Industry
- Diploma in Engineering and Technology for Hydrocarbon Transportation and Storage

•	TECHNICAL UNIVERSITY OF ORURO, Oruro, Bolivia National Faculty of Engineering Guest Lecturer of the Diploma in Natural Gas Applications, 2007 Subject: Natural Gas Transportation and Distribution Systems
•	SAN SIMON MAYOR UNIVERSITY, Cochabamba, Bolivia Center for Higher Education (CESU) Guest Professor of the Master's Degree in Legal Management of Hydrocarbons, 2005 Subject: Fundamentals of the Hydrocarbon Production Industry
•	UNIVERSIDADE DE SÃO PAULO, São Carlos-SP, Brazil Academic Monitor, Department of Mechanical Engineering, EESC, 1996-2000. Subjects: Technical Thermodynamics I, Industrial Refrigeration, Heat Exchangers
•	BOLIVIAN PRIVATE UNIVERSITY, Cochabamba, Bolivia Part-time Professor, Department of Electromechanical Engineering & Production, 1994-1995. Subject: Solid Dynamics II
•	ORURO TECHNICAL UNIVERSITY, Oruro, Bolivia Teaching Assistant, Department of Mechanical Engineering, FNI, 1990-1993
- PAF	Subjects: Basic Algebra, Basic Physics I, Calculus I, Linear Algebra and Matrix Theory, Machine Mechanisms Compression Machines and Pneumatics, Design and Construction of Steel Structures, Technical Mechanics
- PAF -	
-	Compression Machines and Pneumatics, Design and Construction of Steel Structures, Technical Mechanics RTICIPATION IN PROJECTS LINKED TO INDUSTRY AND INSTITUTIONS Project: EUBBC-Digital – EU ERASMUS Level of Responsibility: Development of the Study Plan and Academic Director of the Diploma in Renewable Energy Technology and Management, UPB-UMSS agreement
•	Compression Machines and Pneumatics, Design and Construction of Steel Structures, Technical Mechanics RTICIPATION IN PROJECTS LINKED TO INDUSTRY AND INSTITUTIONS Project: EUBBC-Digital – EU ERASMUS Level of Responsibility: Development of the Study Plan and Academic Director of the Diploma in Renewable Energy Technology and Management, UPB-UMSS agreement Period: 2022-2024 Project: Applied bioclimatic architecture in La Paz, case of Torres Montenegro Level of Responsibility: Consultant
•	Compression Machines and Pneumatics, Design and Construction of Steel Structures, Technical Mechanics RTICIPATION IN PROJECTS LINKED TO INDUSTRY AND INSTITUTIONS Project: EUBBC-Digital – EU ERASMUS Level of Responsibility: Development of the Study Plan and Academic Director of the Diploma in Renewable Energy Technology and Management, UPB-UMSS agreement Period: 2022-2024 Project: Applied bioclimatic architecture in La Paz, case of Torres Montenegro Level of Responsibility: Consultant Related Company: Urbanova, Year: 2016 Project: Energy efficiency audit at MODA cardboard factory Level of Responsibility: Senior Advisor
•	Compression Machines and Pneumatics, Design and Construction of Steel Structures, Technical Mechanics RTICIPATION IN PROJECTS LINKED TO INDUSTRY AND INSTITUTIONS Project: EUBBC-Digital – EU ERASMUS Level of Responsibility: Development of the Study Plan and Academic Director of the Diploma in Renewable Energy Technology and Management, UPB-UMSS agreement Period: 2022-2024 Project: Applied bioclimatic architecture in La Paz, case of Torres Montenegro Level of Responsibility: Consultant Related Company: Urbanova, Year: 2016 Project: Energy efficiency audit at MODA cardboard factory Level of Responsibility: Senior Advisor Associated Company: MODA, Year: 2016
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	Project: <i>Optimization of the cooling system of the compression plant at the Víbora Plant.</i> Level of responsibility: Senior Project Advisor Associated Company: Bolpegas. Year: 2009
l	Project: <i>Reengineering of the Huayñacota Compression Station with the implementation of the Carrasco- Cochabamba Gas Pipeline.</i> Level of responsibility: Senior Project Advisor Associated Company: IPE Bolivia. Year: 2009
	Project: <i>Technical-financial prefeasibility study of a natural gas processing plant for obtaining diesel oil using the Fischer-Tropsch process Level of responsibility: Project Reviewer Related Company: Hydrocarbons Unit - Prefecture of Cochabamba Year: 2008</i>
/	Project: <i>Technical-economic evaluation of the implementation of a natural gas liquid extraction plant in the export branch to Argentina</i> . Level of responsibility: Project Reviewer Related Company: YPFB Year: 2008
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F	Project: <i>Technical-financial prefeasibility study of a hydrocracking plant to produce diesel oil from</i> <i>reduced crude oil and prospective study of the domestic market</i> . Level of responsibility: Senior Project Advisor Related Company: YPFB Refining – Industrialization Management Year: 2008
• 6	Project: <i>Development of a Natural Gas Use Strategy for Changing the Energy Matrix in Cobija</i>
	Level of responsibility: Project Reviewer Related Company: YPFB Year: 2008
	Project: <i>Sizing of Peripheral Instruments and Design of the Fire &amp; Gas System and Emergency Shutdown of the Percheles Plant.</i> Level of responsibility: Senior Project Advisor Related Company: Total Services SRL and Chaco Oil Company Year: 2007
	Project: <i>Separation and Piping System Design for the Project: "Optimization for the Recovery of Drainage Liquids in Recycling Compressor Scrubbers"</i> Level of responsibility: Project Reviewer Related Company: Bolpegas SRL and Petrobras Bolivia - San Alberto Plant Year: 2007
L	Project: <i>Design, Construction and Assembly Engineering of the Tank Cooling System at the Guillermo Elder Bell Refinery.</i> Level of responsibility: Senior Project Advisor Related Company: Conta Oil and Petrobras Refinación SA Year: 2006

Project: *Technical and Economic Evaluation of Natural Gas Transportation Technologies for the Urban Population of Aiquile* Level of responsibility: Senior Project Advisor Related Company: Hydrocarbon Unit of the Prefecture of Cochabamba Year: 2006

#### LATEST COURSES, SEMINARS AND WORKSHOPS COMPLETED

- Energy Efficiency and Audit Course, Green SME Program of the Inter-American Investment Cooperation. 2016
- PMI Project Management Workshop Course, PMI ConoSur Tour, Santa Cruz 2011.
- Evaluation and Characterization of Hydrocarbon Reserves, Bolivian Private University. Speaker: Eng. José Camacho, Simon Bolivar University, Caracas-Venezuela. 20-hour course.
- Economic Evaluation and Risk Analysis of Hydrocarbon Exploration and Production Projects. Speaker: MBA Mauricio Medinaceli M., Consultant in Petroleum Economics and former Minister of Hydrocarbons, UPB-Cochabamba. 20-hour course.
- Senior Management in the Development of Competitiveness Business Management System (BMS). Speaker: PhD. Osman Atac, UPB-Cochabamba. 16-hour course.
- Specialized courses in Renewable Energy applications, International University of Andalusia, Huelva, Spain. 500hour classroom course.
- Course on the Development and Implementation of ISO 9000:2000 for a Quality Management System, Universidad Privada Boliviana, Cochabamba. 16-hour course.

#### ACTIVITIES RELATED TO SCIENCE AND TECHNOLOGY MANAGEMENT AND TECHNOLOGY TRANSFER PROCESSES

- Manager of the YPFB-Andina New Professional Training Program in Hydrocarbon Exploration and Production, 2010.
- Training program manager for the YPFB Industrialization Management, 2008.
- Manager and Coordinator of the Specialization Project for Maintenance Technicians at the Gualberto Villarroel Refinery, Petrobras-Bolivia. (2006-Present)
- Manager and Coordinator of the Multi-Specialization Project for Operators at the Gualberto Villarroel Refinery, Petrobras-Bolivia. (2004-2005)
- Academic Director of the National Diploma Program in "Oil and Natural Gas Technology and Management" (2003-Present).
- Academic Director of the National Diploma Program in "Petroleum and Natural Gas Engineering: Emphasis on processing, transportation, distribution and refining of hydrocarbons" (2003-present).
- Academic Director of the Training Program for Hydrocarbon Management of the National Tax Service, Santa Cruz –Bolivia, (2004).

- Project Director of the Cooling System Research Project at the Quimbol Lever Soap Plant, Cochabamba, Bolivia, (2003).
- Member of the Science, Technology and Innovation Committee of the Chamber of Industries of Cochabamba, Bolivia (2002-Present)
- Member of the Competitiveness Committee of the Department of Cochabamba-Bolivia, (2003-Present).
- Invited as an expert in the Hydrocarbons and Energy sector by the Vice-Ministry of Higher Education, Science and Technology of Bolivia for the development of the National Science and Technology Plan, Cochabamba-Bolivia (2003).
- Principal Investigator, Automotive Refrigeration Systems Simulation, Energy and Fluids Laboratory, University of Sao Paulo, Sao Carlos-Brazil (1997).
- Principal Investigator, Heat transmission and pressure drop models in condensation processes of alternative fluids to CFCs inside tubes with micro ducts, University of Sao Paulo, Sao Carlos-Brazil (2001).
- Principal Investigator, Condensation Processes in Microchannel Ducts Used in the Refrigeration Industry, Air Conditioning and Refrigeration Center (ACRC), University of Illinois at Urbana-Champaign, Illinois-USA (2000).
- Research and Development Project Leader, Design of new condensation equipment for IBIZA automobile air conditioning using variable displacement compressors, Electro Auto SA, Madrid-Spain (1999)

### LATEST PUBLICATIONS AND PARTICIPATION IN EVENTS

- Bolivia Gas & Energy International Congress, 2008.
- Press articles on the energy and hydrocarbons sector in the newspaper Los Tiempos with journalist Hans Soria. (2004 present).
- Lecturer and reviewer of technical articles at the "Brazilian Congress of Mechanical Engineering", 2008
- Participant of the Congress "Rio Oil&Gas Conference", 2006, Rio de Janeiro-Brazil.
- Speaker at the "Bolivarian Congress of Mechanical Engineering", 2004, Lima-Peru.
- Popular Article in ENERGYPRESS Magazine, Importance of Uncertainty Levels in the Chromatographic Measurement of Natural Gas, June, (2004).
- Speaker at the "Symposium on Alternatives for the Use of Bolivian Natural Gas", Prospective of the Natural Gas Industry in Bolivia: The Potential of GTL Technology, Cochabamba-Bolivia, (2004).
- Speaker at the "National Conference of Private Entrepreneurs of Bolivia", Technological Alternatives for the Development of Natural Gas Resources in Bolivia, Cochabamba-Bolivia, (2004)

• Invited as an Expert at the Proposal Forum for a National Gas Policy, Santa Cruz-Bolivia, (2004). Speaker at the Seminar on Development Strategies Associated with Hydrocarbon Resources, Technologies and Applications of Natural Gas, Tarija-Bolivia, (2003). Speaker at the Bolivarian Congress of Mechanical Engineering, Thermo-hydraulic study of the flow of coolants in aluminum sheets with micro channels, Lima-Peru, (2003). Scientific Article, International Journal of Refrigeration, Modeling and Experimental Evaluation of an Automotive Air Conditioning System with a Variable Capacity Compressor, Vo.25, p.1157-1172, 2002. **KNOWLEDGE OF LANGUAGES** Mastery of the Spanish language Mother Tongue Mastery of the Quechua Language Mother Tongue English language proficiency Graduated from the British Academy, Oruro-Bolivia (1989) PhD studies at the University of Illinois at Urbana-Champaign, USA (2000-2001) Mastery of the Portuguese Language Master's and PhD studies at the University of Sao Paulo, Brazil. (1995 - 2000) Basic French Language Courses at the . Alliance Française, Brazil. (1998) Basic command of the German language Courses at the German Cultural Institute, Bolivia. (1993) KNOWLEDGE OF SOFTWARE AND ICTs Support software Professional Software EES MS Office 2007 and MS Project HYSYS Adobe Photoshop GASCALC Visio OFM Autocad Pipesim MBAL Vector Works Video conferencing software Matlab Virtual education software Eclipse Skype

## MEMBERSHIPS IN PROFESSIONAL SOCIETIES AND OF TECHNOLOGY MANAGEMENT

- Member of the Bolivian Society of Engineers, SIB
- Member of the "Society of Petroleum Engineers", SPE
- Member of the American Society of Mechanical Engineers, ASME
- Member of the "American Society of Heating, Refrigeration and Air Conditioning Engineers", ASHRAE.
- Registration in the INOVA Electronic Bulletin of the Center for Technology Policy and Management of the University of San Pablo-USP.
- Member of the Latin-Ibero-American Association of Technology Management, ALTEC