

# Curriculum Vitae

## Personal information

First name(s) / Surname(s) **ORTIZ, Hamilton Yair**  
Address(es) Rua Jaceguai, 620. São Paulo - Brazil  
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Lattes <http://lattes.cnpq.br/7756037973001995>  
Nationality Colombian  
Date of birth 17.03.1989  
Gender Male

## Occupational field **Mechanical Engineer, Energy Efficiency Consultant**

### Work experience

Dates	From June 2016 up to now
Occupation or position held	<b>Energy Efficiency Consultant – Associate</b>
Main activities and responsibilities	Development of energy audits, including: baseline, identification of opportunities, Action Plan creation and management of execution processes. Industry and Buildings. Development of energy benchmarks for sectorial and/or national scenarios.
Name and address of employer	Mitsidi Projetos
Type of business or sector	Consultancy
Direct contact information	Edward Borgstein ( <a href="mailto:edward@mitsidi.com">edward@mitsidi.com</a> )
Dates	From February 2016 to April 2017
Occupation or position held	<b>Postgraduate researcher</b>
Main activities and responsibilities	Research and development of Energy Efficiency and CO <sub>2</sub> emissions reduction in Oil & Gas Offshore operations
Name and address of employer	Fundação de desenvolvimento da Unicamp FUNCAMP. Av. Érico Verissimo, 1251. Campinas, SP, Brazil.
Type of business or sector	Oil & Gas Exploration and Production
Direct contact information	Waldyr Luiz Ribeiro Gallo ( <a href="mailto:gallo@fem.unicamp.br">gallo@fem.unicamp.br</a> )
Dates	From August 2011 to January 2014
Occupation or position held	<b>Mechanical Engineer Jr.</b>
Main activities and responsibilities	Mechanical Design of Surface Production Facilities Sizing, selection, economic evaluation and procurement of turbomachinery and piping systems. Implementation of energy management systems in mature and exploratory oil & gas fields
Name and address of employer	Petrobras Colombia. Cra. 7 <sup>th</sup> # 71 – 21 – Tower B – 17 <sup>th</sup> Floor. Bogotá, CUN, Colombia.
Type of business or sector	Oil & Gas Exploration and Production
Direct contact information	Cesar Mendez ( <a href="mailto:cmendez@co.perenco.com">cmendez@co.perenco.com</a> )
Dates	From February 2011 to August 2011
Occupation or position held	<b>Internship - Mechanical Engineering</b>
Main activities and responsibilities	Development of Technical Specifications and Data Sheets for mechanical equipment and piping. Implementation of energy efficiency key performance indicators.
Name and address of employer	Petrobras Colombia. Cra 7 <sup>th</sup> # 71 – 21 – Tower B – 17 <sup>th</sup> Floor. Bogotá, CUN, Colombia.

Type of business or sector Oil & Gas Exploration and Production  
 Direct contact information Cesar Mendez ([cmendez@co.perenco.com](mailto:cmendez@co.perenco.com))

## Education and training

Dates February 2014 to February 2016  
 Title of qualification awarded Master of Science of Mechanical Engineer  
 Principal subjects/occupational skills covered  
 - First and second law (exergetic) analysis of thermal systems  
 - Chemical processes simulation and assessment.  
 - Gas turbine fundamentals.  
 Name and type of organisation providing education and training State University of Campinas  
 Rua Mendeleyev, 200. Campinas, São Paulo, Brazil.  
 Level in national or international classification ISCED 5A

Dates March 2006 to August 2011  
 Title of qualification awarded Mechanical Engineer  
 Name and type of organisation providing education and training National University of Colombia  
 Cra. 45 # 26 – 85. Bogotá, Colombia.  
 Level in national or international classification ISCED 5A

## Additional studies

“Programa de Formación de Líderes Energéticos”. From March 2015 to June 2015.  
 COCME (Comité Colombiano del Consejo Mundial de Energía). Medellín, Colombia.  
 36 Hours approved

“Gestión Energética Avanzada”. From March 2012 to June 2012  
 National University of Colombia / ICONTEC (Instituto Colombiano de Normas Técnicas).  
 Bogotá, Colombia.  
 144 hours approved / NTC ISO 50001 Internal Auditor Certification

“Curso Gestores Energéticos”. From August 2011 to October 2011  
 National University of Colombia. Bogota, Colombia.  
 60 Hours approved.

## Personal skills and competences

Native language(s) **Spanish**

Other language(s)

Self-assessment  
 European level (\*)

**English**  
**Portuguese**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent User	B2	Independent User	B1	Independent User	B1	Independent User	B2	Independent User
B2	Independent User	B2	Independent User	B2	Independent User	B2	Independent User	B2	Independent User

(\*) [Common European Framework of Reference for Languages](#)

Certifications  
 - Certificação Nivel Avançado de Proficiência em Língua Portuguesa para Estrangeiros (CELPE-BRAS)  
 INEP, 2013 – Avançado  
 - TOEFL ITP English proficiency  
 Mastertest, 2014 – B2: Independent User

<b>Publications</b>	Conferences	<ul style="list-style-type: none"> <li>- Ortiz C., H. Y.; Gallo, W. L. R. First and Second Law analysis of CO<sub>2</sub> offshore compression system. 23th ABCM International Congress of Mechanical Engineering. Proceedings. Rio de Janeiro: 2015.</li> <li>- Ortiz C., H. Y.; Gallo, W. L. R.; Acevedo B. V. L. Evaluación de indicadores de eficiencia energética y emisiones de CO<sub>2</sub> en plataformas de petróleo offshore con Ciclo Combinado. V Congreso de Eficiencia y Gestión Energética. Cartagena: 2016.</li> <li>- Gallo, W. L. R. et. al. Exergy Assessment of the Compression Systems and its Prime Movers for a FPSO Unit. 29TH International Conference on Efficiency, Cost, Optimization, Simulation And Environmental Impact of Energy Systems. Proceedings. Portorož: 2016.</li> <li>- Ortiz C., H. Y.; Gallo, W. L. R.; Acevedo B. V. L. Assessment of carbon capture and combined cycle integration with a maritime CO<sub>2</sub> injection compression system. Rio Oil &amp; Gas Expo and Conference 2016. Proceedings. Rio de Janeiro: 2016.</li> </ul>
	Journals	<ul style="list-style-type: none"> <li>- Gallo, W. L. R. et. al. Exergy Assessment of the Compression Systems and its Prime Movers for a FPSO Unit. Journal of Natural Gas Science and Engineering, Available online 27 April 2017, ISSN 1875-5100, <a href="https://doi.org/10.1016/j.jngse.2017.04.023">https://doi.org/10.1016/j.jngse.2017.04.023</a></li> </ul>
Social skills and competences	<ul style="list-style-type: none"> <li>- Team Spirit</li> <li>- Good oral and written expression, gained through several project dissertations</li> <li>- Good interaction and continuous learning from professionals with high experience and managing responsibilities.</li> </ul>	
Organisational skills and competences	<ul style="list-style-type: none"> <li>- Adaptability to new environments, gained from the requirement of to manage working tasks and goals in continuous variation.</li> </ul>	
Technical skills and competences	<ul style="list-style-type: none"> <li>- Complete Mechanical engineering abilities</li> <li>- Good ability for layout design of production facilities, according to process requirements, environmental issues, construction feasibility, etc. (Obtained with the development of conceptual, basic and detailed engineering of the Central Production Facilities Campo Balay)</li> <li>- Excellent abilities for drawing and diagram interpretation, including Piping &amp; instrumentation diagrams, Process Flow Diagrams, Electrical Diagrams, tank, pumps and vessel connections, etc.</li> </ul>	
Computer skills and competences	<ul style="list-style-type: none"> <li>- Good command of process simulators as Aspen Hysys™ and Thermoflow Thermoflex™</li> <li>- Good command of Microsoft Office™ tools (Word™, Excel™, PowerPoint™, Project™, Visio™)</li> <li>- Knowledge of CAD and 3D modelling Software (Autodesk Autocad™, Autodesk Inventor™, Dassault Systems SolidWorks™, Siemens PLM Solid Edge™)</li> <li>- Knowledge of graphic design applications (Adobe Illustrator™, PhotoShop™, Premiere™)</li> </ul>	
Artistic skills and competences	<ul style="list-style-type: none"> <li>- Photography, illustration</li> </ul>	
Volunteering	<ul style="list-style-type: none"> <li>- Volunteer and Photographer for the NGO Teto Brasil. (May 2015 up to now)</li> <li>- Participation in projects of social development in extreme poverty slums at São Paulo state.</li> </ul>	