



# Curriculum Vitae

Ciro Martínez Oropesa

(BSc., MSc., PhD.)

## RESUME

I am an Industrial Economist of the Universidad de Holguín. Cuba. Doctor of the Universidad de León, Spain. Master in Management, Master in Project Management and Master in Prevention of Occupational Risks and Degree of Specialist in Ergonomics and Psychosociology.

I am Associate Professor, consultant and researcher. I am working, as Associate Professor of the Department of Operations and Systems, besides was the Chair of the Master's and Specialization in Hygiene and Industrial Safety of the Universidad Autónoma de Occidente. Between 2005 and 2015, I worked too as Associate Professor and Director of the Social Sciences Department at the Universidad Nacional de Colombia (My experience in higher Education is of 19 years).

I was a leader of several consulting projects in mayor companies and private businesses related focused industrial safety Management, develop the culture in industrial safety, interventions from ergonomics and Prevention of Occupational Hazards. I have been as a speaker at national and international conferences in Colombia, Spain, Chile, Perú, México and Cuba and Leader of few conferences and seminars on Safety and Health at Work and Project Management focused on good practices of the PMI.

I had been visiting Professor of the Master of Health at Universidad de Piura (Perú), the Tecnológico Superior de Mante (México) and Associate Professor part time of the several graduate programs in Colombia, including the MBA from the Universidad Nacional de Colombia.

I worked as Manager of the Financial and Commercial Business in the Aeropuerto Internacional de Holguín and others public companies as Humans Resource Management.

### Ciro Martínez Oropesa

**IC:** 1.107.085.050

**Passport:** AO108873

**Address:** 17b Street, # 62-10, Villas de Guadalupe. Cali. Colombia

**Telephone:** (57) (2) 3720889

**Mobile:** (316) 5322043

**Emails:** cmartinezo@uao.edu.co; cmartinezo@unal.edu.co **Websites:**

<https://www.linkedin.com/in/ciro-mart%C3%ADnez-oropesa-16220932>

<https://scholar.google.com/citations?user=HpGHoiIAAAAJ&hl=es>

[http://scienti.colciencias.gov.co:8081/cvlac/visualizador/generarCurriculoCv.do?cod\\_rh=0000493350](http://scienti.colciencias.gov.co:8081/cvlac/visualizador/generarCurriculoCv.do?cod_rh=0000493350)

### Education

1. Ph.D. in integration economic and territorial development. Major for the Ph.D. Degree in Industrial Safety and Occupational Health. Universidad de León. Spain. (Degree conferred in 2014).
2. Ph.D. Doctorate in Project. Universidad Internacional Iberoamericana - UNINI México. 2018.

3. Master in Project Management. European Institute of Postgrade. Madrid. August. 2017. Mayor in Planning and Monitoring project control through Microsoft Project.
4. Master in Occupational and Risk Prevention. Foundation MAPFRE. Spain. (Degree conferred in 2010).
5. Specialist in ergonomics and psychology. Foundation MAPFRE. Spain. (Degree conferred in 2010).
6. Master in Management. Universidad de Holguín. "Oscar Lucero Moya". Cuba. (Degree conferred in 2001).
7. Diploma University teaching with a focus action in context. 2009. Universidad Pontificia Javeriana. September 11 to December 5, 2009.
8. Specialist in Commercial Airports Management. Havana. June 16, 2000.
9. Industrial Economics. Universidad de Holguín. "Oscar Lucero Moya". Cuba. Approved in Colombia as "Bachelor degree business administration". 1984-1989.

### **Industry expertise**

1. Chair of the Department of labor and compensation, at Company Garden Afforestation. Holguín. Cuba **(1983-1988)**.
2. Head of Human Resources. Company of Whole Saler of Food, Holguín. Cuba. **(1988-1990)**.
3. Deputy Manager of Financial and Commercial Business. International Airport "Frank País" de Holguín. Cuba. **(1996-2000)**.
4. Chief of the Economics and Human Resources. Center of information and technology management. Academy of Sciences of Cuba. Holguin. Cuba. **(2001-2002)**.

### **Skills and expertise main:**

**Layout of the Industrial plants. Occupational Safety and Industrial Ergonomics,** Safety Management, Safety culture and the Risk Assessment. **Human Resource:** Conflict Management and Problem Solving, Multi-tasking, Change Management, Organization and Communication. **Project Management:** Planning and Monitoring the Project through Microsoft Project (Time, resource, cost, EVM, risk Management). **Knowledge and innovation management.**

### **Academic experience and accountability Management**

**From 15/01/2005-present: Universidad Autónoma de Occidente. Faculty of Engineering (57) (2) 3188000. Ext. 11377.**

1. **Associate professor.** Taught undergraduate courses about the layout of the agroindustrial plants, Industrial hygiene and safety, Project Management. And Management of Knowledge (2005-current).
2. **Chair of the Industrial engineer, computing and multimedia systems Department.** (July-2015 to July-2016).
3. **Director and professor full time of the Master program in Occupational Hygiene and Industrial Safety, topics:** environmental hygiene physical factors: noise vibrations, thermal stress, non-ionizing radiation, industrial lighting (2011 to 2017).
4. **Chair of the Specialization program in Occupational Hygiene and Industrial Safety.** (2012 to 2015).

5. **Consultant of the occupational risk insurance company ARL SURA:** electromechanical risk management at 25 companies including TECNO-QUIMICAS, and KARBURY & ADAMS. Taught course of the mechanical hazards.
6. **Consultant** of the occupational risk insurance company ARL **COLMENA:** Electromechanical risk management in companies: CARVAJAL: COMOLSA; BICO; MEPAL; BICIPACK). Ergonomic risk management. Colombina Company.
7. **Consultant** of the occupational risk insurance company ARL **POSITIVA:** Implementation the Industrial safety management based on the behaviors (COMPANIES: ASENDA and BICO INTERNATIONAL SA).
8. **Director and professor** of more than 10 courses of the Industrial Hygiene & Occupational Safety.
9. **Director and professor** of the Project Management Courses approach PMI.

**From 01/09/2005 to 15/08/2015: Universidad Nacional de Colombia. Palmira. Faculty of Engineering and Management. (57)(2)2868888.**

1. **Chair of Social Sciences Department** (08/2007 to 07/2008) and (July/2012- to 2014).
2. **Director of the Specialization program in Ergonomics.** Universidad Nacional de Colombia. (august/2010 to 2012).
3. **Associate professor.** Taught graduate courses about the **human resource management and strategic management of human resource** in **MASTER BUSSINESS ADMINISTRATION.** (October 2015 and 2017).
4. **Associate professor.** Taught undergraduate courses about the production and quality management, human resource management, strategic management of human resource, layout of the agroindustrial plants, industrial hygiene and safety, project management.(September 2005 to 2015).
5. **Director of the research group in human factors and ergonomics.** Department of industrial design. (2006-2010).
6. **Director and professor of the postgraduate course:** Ergonomics and work systems (May to september/2009) and Modern management of industrial safety. (20 august to 4 september/2010).

**Teaching experience (before february 2003)**

1. Professor of the Department of Industrial Engineering, Universidad de Holguin "Oscar Lucero Moya", Cuba. **(1990-1996).**  
Taught courses undergraduate about methods and times, ergonomics, management of human resource, production management, industrial hygiene and safety.
2. Professor. Provincial Institute for Labour Studies, Holguín, Cuba. **(1978-1983).** Taught courses undergraduate about: organization of work and compensation and occupational risk prevention.

**Taught Postgraduate Courses:**

1. **Universidad Manuela Beltran, Colombia:** Ergonomics. Specialization Degree in Occupational Health.
2. **Universidad Mariana, Nariño, Colombia:** Engineering for the Innovation. Master of Administration and Competitiveness.
3. **Universidad Santiago de Cali, Colombia:** Ergonomics. Specialization Degree in Health Management.

4. **Universidad Autónoma del Caribe, Colombia:** Occupational Health and Safety Management in Health Services. Master's Degree in Quality in Health Service.
5. **Universidad Autónoma del Caribe, Colombia:** Modern Models of Industrial Safety Management. Master's Degree in Management.
6. **Universidad de Ibagué, Colombia:** Occupational Health and Safety Management. Master's Degree in Industrial Management.
7. **Universidad Nacional de Colombia:** Ergonomics and work, risk factors. Specialization Degree in Ergonomics.
8. **Universidad Libre, Colombia:** Industrial Safety. Master's Degree and Specialization in Occupational Health.
9. **Universidad Pontificia Bolivariana, Colombia:** Healthy Organizations. Specialization of human talent.
10. **Universidad Nacional de Colombia:** Human talent management. Master of Business Administration.
  - a. Main Course: Human talent management
  - b. Specialization course: Project management and human talent
  - c. Specialization course: Evaluation of the performance and development of human talent.
11. **Universidad Autónoma de Occidente, Colombia:** Health and Safety at Work. Specialization in Human Resource Management.

### **Professional affiliations**

1. Member of the Asociación Colombiana de Occupational Hygiene. (ACHO). Chapter Valle del Cauca. Colombia. (2007 to nowadays).
2. Member of the Association for Ergonomics. Chapter Valle del Cauca. Colombia. (2007 to nowadays).
3. Representative Institutions of Higher Education in Comité Seccional de Seguridad y Salud en el trabajo del Departamento del Valle del Cauca. 21 de julio /2015
4. Member of the Athens Institute for Education and Research. <http://www.atiner.gr/allmembers>, 2016.

### **Consulting service**

1. Consulting work in the Hospital Provincial de Holguín. Health Sector. Cuba. Business management and continuous improvement of the quality of services. "Kaizen philosophy" (1991-1992).
2. Consulting on productivity improvement permanent (Kaizen philosophy) in the company "Fondo de Bienes Culturales". (2002-2003).
3. Consulting in mechanical and entrapment risks in the **Tecnoquímica Company**, through of the Occupational Risk Insurance "SURA". (2005-2006).
4. Consulting in risk mechanical diagnosis 25 **companies in the Valle del Cauca**, through of the Occupational Risk Insurance "SURA". (2006-2007).
5. Consulting in mechanical and entrapment risks. **Karbury and Adams Company**. (2006-2007).
6. Consulting in ergonomics through of the **Occupational Risk Insurance "POSITIVA"**. (2008).
7. Consulting in Management mechanical hazards and entrapment. Company Carvajal through of the **Occupational Risk Insurance "Colmena"**. Companies: Comolsa; Bico; Mepal; Bicipack. (2008).

8. Consulting in Ergonomic risk control. Company Colombina SA, through of the **Occupational Risk Insurance, COLPATRIA**. (2009).
9. Consulting in implementation Behaviour- Based Safety (BBS). **MEPAL Company, Palmira**. Valle del Cauca. (2008).
10. Consulting Implementation Process Behaviour- Based Safety (BBS). **OFI-EXPRESS Company. Carvajal Business Group**. Valle del Cauca. (2010).
11. Consulting Implementation Process Behaviour- Based Safety (BBS). **Assenda Company. Carvajal business group**. Valle del Cauca. (2010).
12. Implementation Process Behaviour- Based Safety (BBS). **BICO Company. Carvajal Business Group**. (2011).
13. Consulting industrial safety culture assessment. **Colgate Palmolive Company**. (2012).
14. Consulting industrial safety culture assessment. **Sociedad Portuaria de Cartagena Company. Colombia**. (2012).
15. Consulting in ergonomics and design of work systems. **NESTLÉ Company**. Colombia. (2012).
16. Course Behaviour-Based Safety (BBS) in **Sociedad Portuaria de Cartagena Company**. (2013).
17. Consulting in implementation Behaviour-Based Safety (BBS). **UTEN National Electrical Industry**. Popayan. (2012-2013).
18. Consulting in implementation Behaviour-Based Safety (BBS). **Sociedad Portuaria de Cartagena Company**. (2012-2013).
19. Consulting in the development of Diagnosis of Culture in Industrial Safety, of the **Company Building, Design and Engineering Cartagena**. (CDI. SA) (2013).
20. Course in Industrial Safety and Occupational Health. Safety Design Process dangerous. Cognitive ergonomics and safety. **Company Ecopetrol**. (2012).
21. Consulting on the development of diagnostics Industrial Safety Culture. **Mexichem Company**. Cartagena. (2015).
22. Consulting on the Behaviour- Based Safety (BBS). **Siderúrgica Gerdau-Diaco**. (2015).
23. Training in control and monitoring of Projects. **Empresas Municipales de Cali**. (EMCALI). Octubre- Noviembre/2017.
24. Training in Risk Management of Projects. **Corporación Autónoma Regional del Valle del Cauca (CVC)**. Noviembre-Diciembre/2017.
25. Consulting on the Behaviour- Based Safety (BBS). **ALDOR. Colombia**. (2015). Junio/2018 to current.

## Publications

1. Industrial Components Guide for the subject of FII-I. Coauthor. Universidad de Holguín. October /1994. Cuba.
2. Industrial Components Guide for the subject of FII-II. Coauthor. Universidad de Holguín. June /1995. Cuba.
3. **Book:** Noise control in industry. Coauthor. Universidad de Holguín. Cuba. 1991.
4. **Book:** Industry Lighting. Coauthor. Universidad de Holguín. Cuba. 1992.
5. General methodological indications for the development of Industrial components and FII Laboratories. Coauthor. Universidad de Holguín. Cuba. February /1992.
6. **Book:** Manual of practice for laboratories Occupational Safety & Industrial Hygiene. ISBN: 978-958-8095-53-0. Universidad Nacional de Colombia. 2009.

7. **Paper:** Successful intervention electromechanical risk from an ergonomic perspective in Industries Valle del Cauca, Colombia. UNIMEDIOS. Universidad Nacional de Colombia. October 23. 2009 Edition. ISBN: 978-958-8095-58-5.
8. **Paper:** The process safety management based on the behaviors from the actions of supervisors. Virtual Pro Magazine. Process ISSN 1900-6241 No. 111. April 2011.
9. **Paper:** The new role of supervisors in Process Safety Management Based on Behaviours. Magazine Globalization, Competitiveness and Governance. Vol 5, No. 2. p. 106-125. ISSN: 1988-7116. August. 2011.  
[http://gcg.universia.net/pdfs\\_revistas/articulo\\_183\\_1311322252883.pdf](http://gcg.universia.net/pdfs_revistas/articulo_183_1311322252883.pdf)
10. **Paper:** Industrial Safety Culture in a triangulated evaluation context. Revista Safety Work. p. 11-15 ISSN: 2011-0006. June 2011.
11. **Paper:** The safety culture: condition high impact on the success of the Process Safety Management Based on Behaviours. Proceedings of the Ninth International Conference on Occupational Risk Prevention. ORP November 2011. ISBN: 978 84 9342 56 9 2. November 2011.
12. **Paper:** Risk perception and work-related injuries in 4 companies of Valle del Cauca. Colombia. Proceedings of the Ninth International Conference on Occupational Risk Prevention. ORP November 2011. ISBN: 978 84 9342 56 9 2. November 2011.
13. **Paper:** Modelling Approaches accidents in complex systems technical partner. Revista el Hombre y la Máquina. No. 37. ISBN: 0121-0777. p. 21-33. December 2011.
14. **Paper:** Leadership and safety culture, its influence in safe work behaviours of employees. Revista Salud de los Trabajadores, Volume 20, N ° 2, ISBN: 13-15-0138. December, 2012.
15. **Paper:** Human error and accidents. Prevencionista magazine. APDR: Peruvian Association of Risk Prevention. First Edition. 2015. <http://www.apdr.org.pe/index.php/revista>
16. **Paper:** Change management processes in industrial plants and the prevention of occupational accidents. Ciro Martinez Oropesa. Revista Salud de los Trabajadores, 23, (1). ISBN: 1315-0138. June, 2015.
17. **Paper:** The safety culture in a construction company: evaluation and interpretation of results. Ciro Martinez Oropesa, Ricardo Montero. Revista Salud de los Trabajadores, 23 (2). ISBN: 1315-0138. June, 2015.
18. **Paper:** The behavior safety management, a process That Works?. Ciro Martinez Oropesa. Revista Medicina y Seguridad en el trabajo. 61 (241) 424-435. ISSN: 1989 – 7790. December, 2015.
19. **Book:** The Industrial Safety, an approach from the behaviors. Ciro Martinez Oropesa. Editorial Academic Spanish (EAE). Spain. ISBN 978-3-8417-6673-1. 2016.
20. **Paper:** Assessment of global vibrations transmitted to workers in an agroindustrial company producing sugar. Giovanni de Jesús Arias Castro, Ciro Martínez Oropesa & Cesar Augusto Reyes. Revista Salud de los Trabajadores, (Maracay) 24(1), 27-37. June, 2016.
21. **Paper:** Hand-Arm Vibration Risk Exposure Assessment in Metal-Mechanics Industry. Giovanni de Jesus Arias Castro & Ciro Martínez Oropesa. Revista Medicina y Seguridad en el trabajo. 62 (245) 327-336. December, 2016.

## Completed researchs

1. **1993-1994.** Lead Research Project: Design the operator`s of the sugarcane harvester operator cabins KTP-2. Universidad de Holguin and Metallurgical Company.

2. **1994-1995.** Lead Research Project: Interactive effects of physical factors of the work environment in the industry inside the man. Universidad de Holguín. Cuba
3. **1996-1996.** Assistant Research project: Research on work motivation and its impact on worker performance, through which job category based on scientific reach of Doctor. Universidad de Holguín. Cuba.
4. **2000-2002.** Lead Research Project: Research on ways to measure and improve the levels of quality and customer satisfaction in the country's airports. Aeropuerto Internacional de Holguín. Cuba. **Master's Thesis.** Master of Management.
5. **2006-2010.** Chair of the Research Group Human Factors and Ergonomics. Universidad Nacional de Colombia.
6. **2006-2007.** Lead Research Project: Design and industries workstations in Valle del Cauca, ergonomic risk factors present, and his importance in cumulative trauma disorders. Universidad Nacional de Colombia.
7. **2008-2011.** Assistant Research project: the mechanical vibration in hand tools and their impact on worker health. Universidad Autónoma de Occidente. Cali. Colombia.
8. **April-2011.** Coordinator of Proposed of Industrial Safety Thematic Network in Latin America. CYTED.
9. **October-2010.** Lead Research Project: Study of the behaviour of supervisors and middle managers to determine the reduction of accidents and modify the behaviour of employees. Universidad Nacional de Colombia.
10. **October-2010.** Lead Research Project: Design and implementation of practice anthropometric Ergonomics Laboratory. Universidad Nacional de Colombia.
11. **2008-2011.** Co-researcher project: Mechanical Vibrations in manual tools and their effect on worker's health. Universidad Autónoma de Occidente. Cali. Colombia.
12. **2013-2015.** Co-researcher project: Mechanical vibrations whole body. Universidad Autónoma de Occidente. Cali. Colombia
13. **2015-2017.** Lead Research Project: Methods and techniques to adopt facilities location and Layout decisions in companies. Universidad Autónoma de Occidente. Cali. Colombia.
14. **2016-2018.** Lead Research Project: Verification of the effectiveness of the use of a teaching methodology based on digital interactive technologies applied to training in industrial safety. Universidad Autónoma de Occidente. Cali. Colombia.

## Conferences presentations

1. **Speaker.** Ergonomics and Productivity, a better Workplace. Summaries of the first Labour Studies Conference. January /1995. Habana. Cuba
2. **Speaker.** Training Safety of Tourism. Summaries of the first Labour Studies Forum. January / 1995. Habana. Cuba
3. **Speaker.** The Health and Safety of workers in the Design Management. Summaries of the first Labour Studies Conference. January / 1995. Habana. Cuba
4. **Speaker.** II National Educational Scientific Forum. January / 1996. Habana. Cuba.
5. **Partaker.** National Occupational Health Conference. Medellin, Colombia. 2006.
6. **Speaker.** II International Conference on Health and Labour. Methodology risk of mechanical interference and by entrapment in the industry. March / 2007. Habana. Cuba. [www.sld.cu / galleries / pdf / sites / INSAT / programa\\_cientifico.pdf](http://www.sld.cu/galleries/pdf/sites/INSAT/programa_cientifico.pdf)
7. **Speaker.** II International Conference on Health and Labour. The impact of media and ergonomic workstations in the development of cumulative trauma disorders. March /



2007. Habana. Cuba. [www.sld.cu / galleries / pdf / sites / INSAT / programa\\_cientifico.pdf](http://www.sld.cu/galleries/pdf/sites/INSAT/programa_cientifico.pdf)
8. **Speaker.** Industrial Design and Ergonomics relationship. Abstracts of the Second International Conference on Ergonomics. "Ergonomics in Context". <http://www.rldisenio.com/beta/Congreso-de-Ergonomia>. August / 2007. Cali, Colombia.
  9. **Speaker.** III Conference of Occupational Health Professionals in the Colombian South Western. October 3, 2009. Jonas Rancho Convention Center in Cali.
  10. **Speaker.** Day of Science and Technology. Successful Intervention Electromechanical Risk from an ergonomic perspective in Industries Valle del Cauca, Colombia. Universidad Nacional de Colombia. Edition. ISBN: 978-958-8095-58-5. October, 23. 2009. Palmira. Colombia.
  11. **Speaker.** Day of Science and Technology. Design and industries workstations in Valle del Cauca, ergonomic risk factors present and their significance in cumulative trauma disorders. UNIMEDIOS. Universidad Nacional de Colombia. Día de la Ciencia y la Tecnología. Edition 2009 ISBN: 978-958-8095-58-5. October 23, 2009.
  12. **Speaker.** Day of Science and Technology. POSTER: The Management of behaviourbased security from the actions of supervisors. UNIMEDIOS. Universidad Nacional de Colombia. Día de la Ciencia y la Tecnología. Edition. ISBN: 978-958-8095-58-5. October 23, 2009.
  13. **Speaker.** 7th International Conference on Occupational Risk Prevention. ORP 2009. Risk management mechanical entrapment in machinery, in a context of processes, innovative technical solutions and work concurrently. Integral Prevention Magazine. November 23, 2009. Chile. [http://www.prevencionintegral.com/Secun.asp?PAGINA=Articulos/@Datos/\\_ORP2009/1201.pdf](http://www.prevencionintegral.com/Secun.asp?PAGINA=Articulos/@Datos/_ORP2009/1201.pdf) [http://prevencionintegral.com/Articulos/@Datos/\\_ORP2009/1201.pdf](http://prevencionintegral.com/Articulos/@Datos/_ORP2009/1201.pdf)
  14. **Speaker.** III International Symposium on Ergonomics and Psychology. Avilés (Asturias España). 2009. Successful intervention risk from ergonomic perspective electromechanical industries. 29 to 31 October. Cali. Colombia <http://www.serviprevencia.org/IMG/pdf/IIIsimposioergonomia.pdf>
  15. **Speaker.** 7th International Conference on Occupational Risk Prevention. Risk management mechanical entrapment in machinery, in a context of processes, innovative technical solutions and work concurrently. November 23, 2009. ORP Chile. [http://www.prevencionintegral.com/Secun.asp?PAGINA=Articulos/@Datos/\\_ORP2009/1201.pdf](http://www.prevencionintegral.com/Secun.asp?PAGINA=Articulos/@Datos/_ORP2009/1201.pdf) [http://prevencionintegral.com/Articulos/@Datos/\\_ORP2009/1201.pdf](http://prevencionintegral.com/Articulos/@Datos/_ORP2009/1201.pdf)
  16. **Speaker.** III International Conference on Health and Labour. The intervention processes and jobs with ergonomic approach to manage risks electromechanical. Principles of a new methodology. 16-april /2010. Habana. Cuba.
  17. **Speaker.** III International Conference on Health and Labour. Behaviour and effects of mechanical vibrations transmitted through hand-arm system to work with vibrating tools and equipment in overload conditions postural upper limb. 13-april /2010. Habana. Cuba.
  18. **Speaker.** III International Conference on Health and Labour. The behaviour-based security with the intervention of Supervisors and Middle Managers. Critical procedures. 14-april /2010. Habana. Cuba.
  19. **Speaker.** Process Safety Management Based on Behaviors, more efficient and effective. First International Conference of management and innovation of organizations: organizations transformational challenges for global competitiveness. UNIMEDIOS. Universidad Nacional de Colombia. September/2010. ISBN: 978-9588095-63-9.

20. **Speaker.** Industrial Safety Culture in a triangulated evaluation context. First International Conference of management and innovation of organizations: Organizations transformational challenges for global competitiveness. UNIMEDIOS. Universidad Nacional de Colombia. ISBN: 978-958-8095-63-9. September/2010.
21. **Speaker.** V Forum of Occupational Health Professionals in Colombian South Western. Conference of mechanical, ISO. Jonas Rancho Convention Center in Cali. October, 2011. Cali. Colombia.
22. **Speaker.** IX International Conference on Occupational Risk Prevention. ORP Risk perception and work-related injuries in 4 companies of Valle del Cauca and safety culture: condition high impact on the success of the process safety and management based on behaviors. November, 2011. Cali. Colombia.
23. **Partaker.** 30th Conference of the International Commission on Occupational Health (ICOH) to be held in Cancun Mexico, from Sunday, March 18 to Friday, March 23, 2012.
24. **Poster:** Hand-arm vibration in Metalworking Industries of the Valle del Cauca
25. **Poster:** Approaches to modeling of accidents in complex socio-technical systems. <http://icoh.confex.com/icoh/2012/webprogram/Person7259.html>
26. **Speaker.** VI International Conference of occupational hazards in Colombian South Western. Movement of loads, according to ISO 11228. Spiwak Hotel. 7 to 8 September, 2012. Cali, Colombia.
27. **Executive Director and Speaker.** First International Conference on Industrial Safety and Health. Conference: "Optimizing Behaviour- Based Safety (BBS): supervisors in action." 10 to 12 October, 2012. Cali. Colombia.
28. **Member of the Scientific Committee** of the "VI International Symposium on Industrial Engineering: News and Trends 2013." Cali, Colombia.
29. **Partaker.** International Conference on e-Science, 2Eie. RENATA-RUAV. 9-10 May, 2013. Santiago de Cali. Colombia.
30. **Speaker.** Industrial Expo 2013 Conference dictated: "Optimizing Behaviour- Based Safety (BBS). Supervisors in action." April / 2013. Cali, Colombia.
31. **Partaker.** 5th Latin American Conference on Process Safety. August 12 to 14, 2013. Cartagena. Colombia.
32. **Speaker.** International Congress of occupational hazards and meet professionals in occupational health Colombian South Western. Cognitive ergonomics, management models applied to Industry, October 4 to 5, 2013. Cali, Colombia.
33. **Executive Director** of the Third Regional Forum on Safety and Health at Work. Universidad Autónoma de Occidente. May 3, 2014. Cali, Colombia.
34. **Executive Director** of the First National Conference Project Management with approach of the PMI. Universidad Autónoma de Occidente. June 7, 2014. Cali, Colombia.
35. **Executive Director** of the Second National Seminar "Project Management with PMI approach" Universidad Autónoma de Occidente. September 6, 2014. Cali, Colombia.
36. **Executive Director** of the Fourth Regional Forum on Safety and Health at Work. Universidad Autónoma de Occidente. November 8, 2014. Cali, Colombia.
37. **Speaker.** International Conference on Engineering Education ACOFI 2014. Development of the research component in a Master's program of the Universidad Autónoma de Occidente. October 7 to 10 2014. Cartagena, Colombia.
38. **Speaker.** VIII International Congress of Occupational Risks and Occupational Health. Professional's forum of Colombian South Western, 2014. The role of supervisors and middle managers in the Behaviour- Based Safety (BBS). October 2 to 3, 2014. Cali, Colombia.

39. **Speaker.** National Congress on Ergonomics. Transfer and mobility of older adults with physical disabilities, a challenge to the health of nurses in a clinic in the city of Cali. Aviles. Spain. November 2014.
40. **Speaker.** International Meeting of Researchers in 2014. Change management processes in industrial plants and accident prevention. November 19 to 20, 2014. Cali, Colombia.
41. **Speaker.** VII Regional Forum on Safety and Health at Work. The Behaviour- Based Safety (BBS): More effective and efficient. Universidad Autónoma de Occidente. October 22, 2016. Cali, Colombia.
42. **Executive Director and Speaker.** First International Conference of Projects. Pacific Colombia Chapter. Development of human talent and its alignment with strategy. Universidad Autónoma de Occidente. June 23 to 24, 2017. Cali. Colombia.

## Completed courses

1. Course of management techniques. Instituto Superior Técnico de Holguín. Holguín, Cuba. July 12, 1990.
2. Course of business management and productivity improvement. Instituto Superior Técnico de Holguín. Holguín, Cuba. October 15, 1992.
3. Postgraduate course of philosophy science and society. Instituto Superior Técnico de Holguín. Holguín, Cuba. July 17, 1994.
4. Course of University teaching. Instituto Superior Técnico de Holguín. Holguín, Cuba. March 3, 1994.
5. Graduate translation of scientific texts. Instituto Superior Técnico de Holguín. Holguín, Cuba. January 30, 1995.
6. Postgraduate course of marketing. Instituto Superior Técnico de Holguín. Holguín, Cuba. January 20, 1996.
7. Accounting and finance course for Managers in Airports. Habana. May 28, 1997.
8. Course of negotiation. Civil Aviation Cuba. Habana. November 28, 1996.
9. Course of leaders in Airports. Habana. February 21, 1997.
10. Course of Airports management. IAMTI / IIFGA. Habana. 9 to 20 June 1997.
11. GERCOMA Commercial Management Specialization. Habana. May 29 to June 16, 2000.
12. International Seminar on New Management Thinking. Cali. Colombia. December/2005.
13. Seminar Marketing Management Consultancy. Cali. Colombia. June-July/2005.
14. Workshop scientific research methods. Cali. Colombia. October/2005.
15. Course virtual facilitator. E-learning platform Moodle. Universidad Autónoma de Occidente. June / 2007.
16. Course virtual facilitator. Universidad Autónoma de Occidente. June-july / 2008.
17. Auditor in GP 1000 and ISO 19011. February/2009.
18. Project formulation workshop Seminar for International Cooperation "Logical Framework Approach". July/2009.
19. Online training course "Voluntary Cooperation and Humanitarian Action. NGO Coordinator for Development Cooperation with Spain in social work "la Caixa".9 to 23 September, 2009.
20. Academic peer training 2009. Ministry of Education. Bogotá. Colombia. November 21, 2009.
21. Diploma in University teaching approach to context. CRES and Universidad Javeriana. Santiago de Cali. September 11 to December 5, 2009.

22. Course of Diploma of auditing of projects and construction works. Atlantis University. January- June, 2014.
23. Design of electronic environments in teaching. Application of Information technology and communications in University education. Universidad Autónoma de Occidente. 2016-2017.
24. Effective Preparation Course for the PMP Exam – CAPM. August, 2016.
25. Simulation course of questions PMP Exam. July 06, 2017. Pablolledo.com LLC
26. Course Preparation Scrum methodology and agile projects. October, 2017.

## Supervise Master's and PhD research students

- **Master's Thesis:** Contribution of the process of induction of personnel, in the construction of a culture of service, in the companies that provide services of logistic operation in the city of Cali. Student: Faynory Mora Triana. Master of Business Administration -MBA. Universidad Nacional de Colombia. 201.
- **Master's Thesis:** Towards a career plan at the Universidad de Colombia. Palmira Headquarters. Student: José Reinel Uribe Ceballos. Master of Business Administration -MBA. Universidad Nacional de Colombia. 2010.
- **Master's Thesis:** Analysis of the human management practices in the effectiveness to retain the human talent within the organization. Student: Francisco Santa Cruz. Master of Business Administration -MBA. Universidad Nacional de Colombia. 2010.
- **Master's Thesis:** Incidence of the organizational culture on the welfare of the public servants of an educational institution of Valle del Cauca. Student: Andrés Libreros Morales. Master of Business Administration-MBA. Universidad Nacional de Colombia. 2010.
- **Master's Thesis:** Comparative analysis of the ergonomic results obtained by two disciplines: industrial engineering and industrial design. Case Study: Work place of embossment of the company COIN Ltda. Student: Luz América Martínez Álvarez. Master in Ergonomics. Universitat Politècnica de Catalunya. Spain. 2010
- **Master's Thesis:** Implementation of a model of occupational epidemiological surveillance for the management of musculoskeletal disorders in workers using computers at a higher education institution in the Popayán City. Student: Cristina Eugenia Restrepo Puentes. Master's Degree in Occupational Safety & Industrial Hygiene. Universidad Autónoma de Occidente. Cali. Colombia. 2013.
- **Master's Thesis:** Model of a self-sustaining company that promotes the labor insertion of newly graduated students in the Food Technology Program. SENA Buga. Student: Sara Maria Gil Daza. Master of Business Administration. MBA-Universidad Nacional de Colombia. 2015.
- **Master's Thesis:** Implementation of a management program for the control of incidents and accidents at work based on the behavior of workers in an Electricity Distribution and Commercialization Company. Student: Julian Alberto Quintero Quintero. Master's Degree in Occupational Safety & Industrial Hygiene. Universidad Autónoma de Occidente. Cali. Colombia. 2015.
- **Master's Thesis:** Study of Behavior and Noise Attenuation in the Steel Company of Yumbo - Valle del Cauca. Student: Hermilson Rojas Gonzalez. . Master's Degree in Occupational Safety & Industrial Hygiene. Universidad Autónoma de Occidente. Cali. Colombia. 2016.
- **Master's Thesis:** Implementation of the Industrial Safety Practices Model in a Mass Consumer Food Industry. Student: Manuel Alejandro Pinzón Torres. Master's Degree

in Occupational Safety & Industrial Hygiene. Universidad Autónoma de Occidente. Cali. Colombia. 2016.

- **Master's Thesis:** Design of methodology to measure the impact on the implementation of the Adult Behavior Model against the Risk at the Multinational EQUION ENERGIA LIMITED. Student: Jorge Enrique Marmolejo Montes. Master of Business Administration -MBA. Universidad Autónoma de Occidente. Cali. Colombia. 2016.
- **Master's Thesis:** Design of Safe Work Scenarios in Work at Heights as a design phase of a Serious Game. Student: Mayra Alejandra Salcedo Rodriguez. Master's Degree in Occupational Safety & Industrial Hygiene. Universidad Autónoma de Occidente. Cali. Colombia. 2016

## PROFESIONAL REFERENCES

Names and surname	Positions	Universities	Emails	Telephons
Reynaldo Velázquez Zaldivar Ph.D.	Rector-Chancellor	<u>University of Holguín.</u> Cuba	<a href="mailto:rector@fh.uho.edu.cu">rector@fh.uho.edu.cu</a> <a href="mailto:reynaldo@vrea.uho.edu.cu">reynaldo@vrea.uho.edu.cu</a>	(53-24) 480981
Milagros Perez Pravia Ph.D.	Dean Faculty of Industrial Engineering	<u>University of Holguín.</u> Cuba	<a href="mailto:mpp@facii.uho.edu.cu">mpp@facii.uho.edu.cu</a> <a href="mailto:mppravia@gmail.com">mppravia@gmail.com</a>	(53-24) 480981
Eliana Castro Silva	Dean Faculty of Engineering and Business Administration	Universidad Nacional de Colombia. Sede Palmira	<a href="mailto:ecastros@unal.edu.co">ecastros@unal.edu.co</a>	(57) 2-2868888. Ext. 35715
Carlos Humberto Mora Bejarano Ph.D.	Ex Dean Faculty of Engineering	Universidad Nacional de Colombia. Sede Palmira	<a href="mailto:chmorab@unal.edu.co">chmorab@unal.edu.co</a>	(57) 2-2868888. Ext. 35715. Cell phone: 316- 8055807
Ricardo Montero Martinez Ph.D.	Chair of the Master Industrial Hygiene and Safety	Universidad Autónoma de Occidente	<a href="mailto:rmonteromartinez@gmail.com">rmonteromartinez@gmail.com</a> ; <a href="mailto:rcmontero@uao.edu.co">rcmontero@uao.edu.co</a>	(57) 2-3188000. Ext. 11891. Cell phone: 317-8872215
Jesus David Cardona Ph.D.	Director of Virtuality Products at Ilumno	LATAM Ilumno	<a href="mailto:jdcardona@uao.edu.co">jdcardona@uao.edu.co</a>	Cell phone: 301-4224581
Luis E. Cortés Paez Ph.D.	Associate Professor	Universidad Nacional de Colombia. Sede Palmira	<a href="mailto:lecortes@uao.edu.co">lecortes@uao.edu.co</a> <a href="mailto:lecortesp@unal.edu.co">lecortesp@unal.edu.co</a>	(57) 2-2868888. Cell phone: 300-4837482
Arnulfo Gómez Carabali Ph.D.	Associate Professor	Universidad Nacional de Colombia. Sede Palmira	<a href="mailto:agomezcc@unal.edu.co">agomezcc@unal.edu.co</a>	(57) 2-2868888. Ext. 35748. Cell phone: 313-7373585



**CIRO MARTINEZ OROPESA (BSc, MSc, Ph.D.) CC:  
1.107.085.050**