

ORLANDO CHARRIA GARCIA



January 16 of 1963, Cali. Colombian, 60 years.

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M.Sc. in Environmental Sciences (Student in Research Project), UTP, Colombia.
Individual Program in Electronic Engineering, Eindhoven International Institute (TU/e),
Eindhoven, The Netherlands.
Electronic Engineering, UPB, Medellin, Colombia.

Keyword summary:

Interdisciplinary, Engineering, Environmental, Renewable Energy Sources, Automation and Control, Climate Change Mitigation, Biofuels, Vertical Farming, Water conservation, Sustainability, International Cooperation, Project Management, Government.

Objective

Seeking new challenges in Environmental Sciences, under the perspective of innovative solutions for urban and rural problems such as solar energy, agriculture, vertical farming, biofuels, algoil, life cycle assessment, Eco-indicators and climate change.
Seeking opportunities to manage, sell and promote environmental projects, preferably but not necessarily within Latin-American countries.

Key Expertise and Skills

Project Coordination and Management: Good experience in international project work, including development and acquisition, (financial) management and technical contributions, evaluation, reporting, bid preparation and negotiation with international partners. Strongly interdisciplinary. Experienced in coaching teams and teaching /training courses.

Engineering: Design of automated or control systems for any type of industrial process. Very good experience in writing control programs for PLC and SCADA packages. Wide experience in providing technical support and sales for Latin-American countries. Able to work fully independent in both sales and technical fields.

Environmental Sciences: Integrated analysis of management, solution, automation or control systems for mitigation and data acquisition of environmental issues. Fully capable of leading or helping a multidisciplinary design or service team: solar, biofuels, urban agriculture, vertical farming, solar farms, environmental telemetry.

Team coordinator and networker: Excellent communication and networking skills. Innovative project developer, global citizen. Familiar with multi/trans/interdisciplinary projects and team work. Very familiar with Latin American culture and societies (from Mexico down to Chile). Social, proactive and participatory attitude. Lived abroad in: The Netherlands (2 years), USA (4 years). Numerous short missions and travels to other countries.

Education.

M.Sc. in Environmental Sciences- UTP Colombia.

Research project: "Vertical Farming as an Alternative for Climate Change Mitigation"

1991- Eindhoven International Institute (TU/e), Thesis: "Color Camera Interface". Designed and implemented for the Centre of Manufacturing Technology (CFT), Philips. Other projects: Machine Vision Recognition Module, CFT, Philips. Real Time Recognizer for the department of Industrial Measurement and Inspection, Philips.

1992 - Courses in Industrial Engineering. Individual Program Eindhoven University of Technology. Focused on: International Distribution Logistics, Strategic Information Systems, Product Inventory Management, Advanced Stock Control Systems, Product Innovation Management.

1986 - Electronics Engineering Universidad Pontificia Bolivariana, Medellin. Industrial automation thesis: "Brain Pattern Recognition" First inter-disciplinary project between two universities. Selected to represent both universities at the First National Engineering Convention.

Courses and Certifications

Power quality expert.

Vibration analyst

Thermography, Certified Thermographer Level 1, Snell Group

Mechatronics. UPB Medellin

Fiberglass products, Academia Colombiana

Single Board Image Processor SBIP, Philips

Special Software.

Good knowledge in SIMAPRO, ECOINVENT DATABASE, MIC- MAC and several SCADA packages.

Work Experience.

Feb. 2002- Present. Latin Tech Inc., Miami (USA) and Pereira (Colombia). Design and implementation of industrial automation projects, definition and selection of equipment to support sales, technical support on our Industrial automation products. Translation into Spanish of the Web info , preparing of all documentation to participate in BIDs. Provided local training in several Latin-American countries.

Sept. 1992- Dec. 2002. EE HI – TECH Medellin- Colombia. Technical and Sales Manager Market Development. Development of Latin-American markets for automation products. Successfully launched and marketed PLC Direct (USA brand) Banner Photoelectric Devices (USA brand) in Colombia. Assisted in the design and start-up of several automation projects all over the country. Very good knowledge of flexible manufacturing systems and automation products and services. Managed high volume of industrial automation projects with responsibilities for the selection and implementation of technologies. Technical lectures and support for all sort of automation users.

Dec. 1990 - July 1992. Philips Internship and design engineer. Design and implementation of a color recognition board.

June 1988 – Dec. 1990. Varta Batteries, Manizales, Colombia. Electronics engineer. Managed a team of five electricians to set up all the preventive and corrective maintenance. Assisted in the design and start-up of a factory to produce alkaline batteries. Designed and automated equipment for online testing.

Nov. 1985 – Sept. 1988. Forjas Bolivar, Medellin, Colombia. Maintenance CEO. Electrical, electronic and mechanical maintenance, protection devices to avoid risks in machine operation. Some automation design related to production of chain lines.

Languages.

<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
Spanish	Fluent	Fluent	Fluent
English	Fluent	Fluent	Fluent
Portuguese	Good	Moderate	Good
German	Good	Poor	Poor
Italian	Good	Moderate	Moderate

Major Accomplishments and Awards

Winner of a scholarship (out of seven) to pursue a post-graduate study in The Netherlands. Selected to represent the university in a National Exhibition of Technological Projects. Managed a task force of three people that increased sales in 50% of an American sensor brand in one year. Translated and written catalogs in Spanish for PLC Direct and other automation companies.

Developed a PLC training program for Spanish speaking people that resulted in good market growth in several countries.

More than 30 automation projects in Colombia. Technical design for customers in Latin America. Guest lecturer about Robotics in several Latin-American countries.

Developed a lot of automation applications including hardware and software.

Best High School Student in 1980

Professional Affiliations.

President for Antioquia of the Colombian Engineering Association.

Member of the Eindhoven International Institute's Students Association.

Written Books.

Fundamentals of PLC Programming. First level. ISBN Number: 978-1-4276-4598-2

Fundamentals of PLC Programming. Second Level. ISBN Number: 978-1-4276-4908-9

Robotics for Children. Available in ten languages.

Hobbies

Reading.

Story writing.

Robot toys construction.