

CARLOS GAMARRA

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SUMMARY

As an engineer, my main focus has been on **design, construction and optimization of industrial facilities**. Approximately 30 % of my work has been on developing facilities for residential and commercial buildings.

The experience gained in my first job on regulatory inspection and commissioning tasks opened the door for a new job as a **project engineer**, developing more than 25 projects. **For a year and a half I worked as the design engineer and was the manager over the construction sites**. Later, I created and ran my own company as a freelance engineer for a period of three years. During 2010, I progressively moved my core activity towards the field of **energy efficiency**, maintaining emphasis on electrical engineering.

After developing **more than 35 projects** on energy audits, Energy Management Systems (including hardware and software for data gathering and management), and energy conservation projects, I obtained a **CEM certification** by AEE. I have also passed the FE exam recently, so I will obtain my **EIT certificate** in a few weeks.

Hard work propels me to **achieve the goals for each project on a daily basis, while building positive relationships with customers**. Linking innovative solutions with customers' demands is my main source of motivation.

PROFESSIONAL EXPERIENCE

- 2015** **PRYSMA CALIDAD Y MEDIO AMBIENTE** (www.pryisma.es). Energy consulting company
Project manager and sales engineer at Energy department.
ISO 50001-based Energy Management Systems implementation for companies such as AB Sugar (La Bañeza, Spain) and Air Liquide (Puertollano, Spain).
- 2011-2015** **INSTITUTO TECNOLOGICO DE CASTILLA Y LEÓN** (www.itcl.es). Research foundation
Project manager and sales engineer at Energy department.
More than 30 projects on energy audits and ISO 50.001-based Energy Management System projects development for manufacturing companies (including hard & soft configuration and commissioning). Project technician for 3 R&D projects. More than 300 visits to more than 60 industrial processes developed (including + 1,000 measurements). More than 3,000 hours deployed as a sales engineer.
- 2007-2011** **PROYSER TECINCO** (www.proyser.com) and **FREELANCE ENGINEER**. Engineering companies
Project engineer and freelance engineer.
Project and construction site management for more than 35 projects. Low and high voltage electrical facilities design, including HV and LV transmission and distribution power lines, and load centers. Industrial and commercial services designer, including lightning, water, gas, steam, compressed air and boilers. Safety manager for construction works under electrical risk. Renewable energy-based power generation projects. 4 energy audits. Sales engineer.
- 2008** **UNIVERSITY OF BURGOS** (www.ubu.es) Education.
Assistant professor
Thermal Engineering assistant professor at Electromechanical Engineering Department.
- 2005-2010** **IDUS FORMACION** (www.idusformacion.com) Education and training.
Trainer
Professional trainer on utilities planning, design and maintenance, including: electricity, water and gas. Occupational risk prevention and construction site safety trainer. 75% of the students passed professional qualification exams.
- 2006** **INGENIERIA DE GESTION INDUSTRIAL S.L.** (www.ingein.com). Engineering services.
Industrial facilities inspector
Regulatory inspection and commissioning of industrial facilities (HV and LV electrical, gas, oil facilities and boilers).

CARLOS GAMARRA LOPEZ

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EDUCATION AND CERTIFICATIONS

- 2016** **EIT certification** (Application in process, FE exam passed). Texas Professional Board of Engineers.
- 2015** **CERTIFIED ENERGY MANAGER (CEM). ANSI/17024.** Association of Energy Engineers. License valid till Dec 2018.
- 2009** Certified Safety Professional (CSP). Junta de Castilla y León (Spain). License 2211/NS/2009
- 2008** **M.Sc. in Occupational Health and Safety (OHS).** Concentration on industrial hygiene, ergonomics and occupational risk prevention. Compañía de Formacion Empresarial (Spain).
- 2006** Project Engineer. Professional Board of Industrial Engineers of Burgos (Spain), License 1174
- 2006** **M.Sc. in INDUSTRIAL ENGINEERING.** University of La Rioja (www.unirioja.es).
- 2003** **B.Sc. in ELECTRICAL ENGINEERING.** Major in power electronics. University of Burgos (www.ubu.es)

COMPUTER SKILLS

- MANAGEMENT** MS PROJECT, MENFIS, PRESTO, NAVISION
- PRODUCTIVITY** MS OFFICE SUITE, OPEN OFFICE, PAGES, NUMBERS
- SIMULATION** **BUILDINGS** LIDER, CALENER, CALENER-VYP, C3X (similar to Energy plus),
POWER SYSTEMS HOMER, ETAP
GENERAL PURPOSE MATLAB
- DESIGN** AUTOCAD, REVIT, DMELECT, DIALUX, DAISALUX, amiKIT, SIScet, ECODIAL and other specific design tools.
- GRAPHIC DESIGN** CORELDRAW, COREL PHOTO-PAINT

ADDITIONAL INFORMATION

Authorized to work in the United States for any employer. Valid Texas driving license.