

# Billy Guerrero

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## SUMMARY

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Electrical engineer with a Master of Science, MBA and 10+ years of experience in the electric utility industry, brewing plant's facilities and project management. Used my electrical engineering and project management skills to help secure US\$ 358 million in financing for electric utilities loss reduction projects in Dominican Republic. Led and worked with professional teams, implementing new ideas and processes to achieve company goals.

## EMPLOYMENT

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**Dominican Electricity Corporation (CDEEE)**, Dominican Republic (DR) state-owned electric enterprises

### Project Coordinator

**Aug 2013 – Mar 2016**

- Used my skills in project management and electrical engineering to coordinate the planning, evaluation and presentation of **103 loss reduction projects** (rebuild of distribution lines, installation of new transformers, service drops and meters), from 3 subsidiaries, helping secure **US\$ 358 million** in financing from the Inter-American Development Bank (**IDB**), the OPEC Fund for International Development (**OFID**), the World Bank (**WB**) and the European Investment Bank (**EIB**).
- Prepared the technical specification for the **request of proposal and statement of work** of 45 loss reduction projects financed by IDB and OFID.
- Created a project management methodology for loss reduction projects, based in the **PMI Standard**.
- Represented CDEEE as a **presenter in an International Loss Reduction Workshop in Jamaica** organized by the US Agency for International Development (**USAID**).

**EDESUR Dominicana**, main subsidiary of CDEEE

### Technical Service Manager, Commercial & Industrial Customers

**Jan 2008 – Jul 2011**

- Reduced the meter reading and bill distribution time from **13 days to 5 days**, a billing total of **US\$ 25 million/month**, which helped with collections and **improved cash flow**.
- Streamlined the installation of the metering system with a total saving of more than **US\$ 1 million**.
- Directed a team of five supervisors, fifteen technicians and three sub-contractors in charge of meter installation, reading, maintenance and tampering inspections.

### Metering Technology Manager, Commercial & Industrial Customers

**Mar 2006 – Dec 2007**

- Coordinated the installation of **7,500 meters with remote metering system** from ACLARA and ITRON, without affecting billing and collections of more than **US\$ 23 million/month**.
- Led a team of **3 engineers** to produce intelligence to **recover and prevent the loss of 10 GWh** by performing energy balance and load factor studies.
- Collaborated in the implementation and the design of the metrics for a **business intelligence** system, **Cognos from IBM**, for the commercial & industrial customers.
- Introduced the use of power analyzers to perform **energy audits and power factor correction** for commercial & industrial customers.

**AMBEV Dominicana**, brewing company, subsidiary of Anheuser-Busch InBev in Dominican Republic

### Engineering Staff

**Sep 2004 – Feb 2006**

- Assisted in the selection and training of **30 operation technicians**, during 3 months in Brazil.
- Oversaw and documented the process of **installation and start-up of all the facility equipment** of the new brewery (air, CO2 generator, boilers, power generators and chillers).
- Kept the maintenance **costs under budget** and the production indexes on par with the goals.
- Worked in the implementation of the maintenance plan and software.

**EDESUR**, subsidiary of Union Fenosa Spain in DR

**Oct 2001 – Aug 2004**

**Network Study Engineer and Supervisor Technical Service**

## EDUCATION

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- **M.S. in Electrical Engineering** – concentration in Power Systems and Power Electronics **(2013)**  
Western Michigan University (WMU), Kalamazoo, MI, USA  
Dominican Republic Government's Scholarship Recipient
- **M.S. in Business Administration** – concentration in Management **(2006)**  
Technical Institute of Santo Domingo (INTEC), Dominican Republic
- **B.S. in Electrical Engineering** - Major Power Systems **(2001)**  
Pedro Henrique Ureña National University (UNPHU), Dominican Republic  
UNPHU's Scholarship Recipient

## PROFESSIONAL DEVELOPMENT

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- Data Analysis and Visualization with Excel MOOC, Edx and Delft University of Technology, 2016
- Loss Reduction Workshop, organized by USAID and Jamaican Government, Jamaica, 2015
- Project Management Seminar, INTRAS, 2015
- Indicators Design Seminar, INTRAS, 2015
- Microsoft Project Server and Project Course, Microsoft Dominican Republic, 2015
- Design Computer Programs with Python MOOC, Udacity, 2015
- Data Analysis with Excel MOOC, Edx and Delft University of Technology, 2015
- Energy 101 The Big Picture MOOC, Coursera and Georgia Institute of Technology, 2014
- Introduction to Computational Thinking and Data Science with Python MOOC, Edx and MITx, 2013
- Trained in Ambev Brazil in the maintenance of the facility services of a brewery (compress air, CO2, vapor, cold water and electricity); also in 5S, leadership and coaching, team work and goal setting, 2005

## SKILLS

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### Transferable

- Leadership > introduced PMI standard and project template overcoming opposition to change
- Flexible and Open to Change > worked with people of multiple nationalities and assumed different roles
- Problem Solving and Analytical > reduced in half the meter reading and billing time for 5,000 customers
- Coordinating with Others > worked with 3 electric utilities and regulators to plan and document 100+ loss reductions projects
- Communication > international workshop presenter

### Specific

- Microsoft Excel and VBA > analyzed data with pivot table and power BI, and automated task with macros
- Microsoft Word > redacted project reports, project plan templates and university papers
- Microsoft Power Point > prepared presentations for seminars and for project stakeholders
- Microsoft Access and VBA > created database to track assets and analyzed customers billing data
- Microsoft Outlook > daily email interchange, meetings setup and calendar appointments
- Microsoft Project > tracked projects
- Cognos BI > created cubes, queries and reports
- Autocad > updated feeders route and cartography maps
- Google Earth > delimited project areas and identified project environmental impact
- Python > modeled simple systems and created simple games
- Power Analyzer and Logger > power factor analysis and energy balance for loss reduction

### Language

- English > full professional proficiency
- Spanish > native proficiency