

Billy Guerrero

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SUMMARY

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

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 of **7,500 customers** 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, bill distribution, 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** to 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 (Oct 01 – Jun 03) and Technical Service Manager (Jul 03 – Aug 04)

EDUCATION

- **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

- 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

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