

# Billy Guerrero

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## SUMMARY

Electrical engineer with two Master of Science and 10+ years of experience in electric utility industry, brewing plant and project management. Applied PMI standard to help secure US\$ 358 million loans for loss reduction projects. Led and work with professional teams, implementing new ideas and processes to achieve company goals.

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## EMPLOYMENT

**Dominican Electricity Corporation (CDEEE)**, holding entity of the Dominican Republic (DR) state-owned electric enterprises

### Project Specialist

**Aug 2013 – Apr 2016**

- Contributed in the planning of **45 loss reduction project** that helped secure **US\$ 138 million** from the Inter-American Development Bank (**IDB**) and the OPEC Fund for International Development (**OFID**).
- Worked in the **request of proposal** and **statement of work** for 45 loss reduction projects financed by IDB and OFID.
- Helped with the planning of **58 loss reduction project** that resulting in **US\$ 220 million** in financing from the World Bank (**WB**) and the European Investment Bank (**EIB**).
- Introduced a project management methodology for loss reduction projects, based in the **PMI Standard**.
- Represented CDEEE as a **presenter in International Loss Reduction Workshop in Jamaica** organized by the US Agency for International Development (**USAID**); with presenter from the IDB, WB, Chile, India, Brazil, Colombia, Kenia and Dominican Republic.

**EDESUR Dominicana**, main electric utility in Dominican Republic

### Manager Technical Services, 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 the 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.

### Manager Metering Technology, Commercial & Industrial Customers

**Mar 2006 – Dec 2007**

- Coordinated the installation of **7,500 remote metering** from ACLARA and ITRON, without affecting a commercial cycle of more than **US\$ 23 million/month**.
- Led a team of **3 engineers** to perform energy balance and commercial losses studies, to produce intelligence for the field team, resulting in **10 GWh recovered** or prevented from being lost.
- 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 process of **30 operation and maintenance technicians**, during 3 months in Brazil.
- Accompanied the process of **installation and start-up of all the equipment of the utility area** of the new brewery (air, CO2 generator, boilers, power generators and chillers).
- Kept the maintenance **costs under budget** and the utility consumption indexes for the first year of operation.
- Trained in Ambev Brazil in the maintenance of the utility services (compress air, CO2, vapor, cold water and electricity); also in 5S, leadership and coaching, team work and goal setting.
- Assisted in the implementation of the maintenance plan and software.

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

**Oct 2001 – Aug 2004**

## 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 High Management **(2006)**  
Technical Institute of Santo Domingo (INTEC), Dominican Republic
- **B.S. in Electrical Engineering** - Major Power Systems **(2001)**  
Pedro Henríquez Ureña National University (UNPHU), Dominican Republic  
UNPHU's Scholarship Recipient

## PROFESSIONAL DEVELOPMENT

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- Data Analysis: 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

## 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