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.

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, CO_2 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, CO_2, 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

- **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 Henrique Ureña National University (UNPHU), Dominican Republic.
  UNPHU´s Scholarship Recipient

PROFESSIONAL DEVELOPMENT

- 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 Management Course, Microsoft Dominican Republic, 2015
- Energy 101: The Big Picture, MOOC, Coursera and Georgia Institute of Technology, 2014
- Data Analysis with Excel, MOOC, Edx and Delft University of Technology, 2015
- Data Analysis: Visualization with Excel, MOOC, Edx and Delft University of Technology, 2016
- Introduction to Computational Thinking and Data Science with Python, MOOC, Edx and MITx, 2013
- Design Computer Programs with Python, MOOC, Udacity, 2015

SKILLS

Transferable
- Leadership > introduced PMI standard and project template overcoming opposition to change
- Flexible and Open to Change > worked was 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 > track 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