

CLIENT NAME

Address
City, State

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ELECTRICAL ENGINEER

Seeking an Entry-Level Position within the Manufacturing and Pharmaceutical Industries

New Electrical Engineering graduate with experience as an electrical engineer intern with a major biotechnology company and an electric power authority seeking an entry-level engineering role on a team that values organization and targeted problem solving that leads to consistent project success. Outstanding analytical and technical skills, with a solid understanding of: electrical engineering theory, hardware troubleshooting, and soldering electronics equipment. A highly motivated team-player; works well under direction and as a part of an interdisciplinary team. Posses the ability to learn and asses new trends and manage unexpected events. Fluent in English and Spanish-both oral and written communication; technical Proficiencies include: AutoCAD, Multisim, Matlab-Simulink, LabView, Arduino Microcontroller Programming, Word/Excel/PowerPoint, Guitar Pro 6.

AREAS OF EXPERTISE

- Electrical Engineering
- Technical Drawings
- Research & Data Analysis
- MIDI technology
- Design Specifications
- Magnetic Devices
- Electrical Instrument Calibration
- Power Systems
- Process Improvement
- Sound Knowledge
- Six Sigma
- Technical Support

EDUCATION & PROJECTS

Bachelor of Science, Electrical Engineering; Minor Concentration in Power Systems and Energy, Inter American University of Puerto Rico- Bayamón Campus; 2014, Cum Laude

Inter American University of Puerto Rico - Bayamón Campus

Automatic Stairway Elevator - Team member (2013)

Design and create a scaled version of an automated chair elevator for the disabled and elderly using an Arduino microcontroller coupled with LabView interface programming. Main objective was easy usability for the advanced age.

Laser Harp - Team Leader (2012)

Design and create a musical harp utilizing MIDI technology and instruments as well as laser pointers to simulate the harp coupled with Arduino microcontroller programming. A considerably cheaper and more efficient design aimed for students and electronic enthusiasts.

Rhythmic LED's - Team member

Design and create an LED circuit that "dances" to the rhythm of music playing as its input signal using active filters to separate low, mid, and high frequencies.

ENGINEERING INTERN EXPERIENCE

Practical experience in the Electrical Section of the Palo Seco Power Plant in Toa Baja, PR. -Assisted electricians during maintenance tasks and equipment troubleshooting inside the plant.

- Supported electricians in the retrograde from a digital to an analog design of a 25-ton overhead bridge crane control module due to components malfunctioning under unfavorable weather conditions like sun radiation and ocean air.

Notable Accomplishment

- Researched ways on saving energy on two particular breaker rooms in which the lights were switched on 24 hours a day and 365 days a year. Utilizing a few motion sensors to control the lighting and to detect if workers entered the area, research concluded that at least 57.1% energy consumption every year could be saved by the redesign.

Practical experience in the Metrology department of the ABL plant

- Effectively and efficiently assisted in the calibration and maintenance of equipment used in Cell Culture/Fermentation, Capture, Separation & Purification stages of product development including UV filters, tank agitators, pressure sensor gauges, water level indicators, etc., as well as temperature sensors inside storage refrigerators monitored by PI ProcessBook and Delta V software.

WORKSHOPS AND TECHNICAL VISITS

- Inter American University of Puerto Rico - Bayamón Campus, 2014
 - Technical Visit to the Puerto Rico Electric Power Authority Central San Juan Thermoelectric Power Plant – Presentation on new GIS (Gas Insulated Substation) being implemented on site by Eng. Daniel Hernández Morales
- IEEE interactive workshop for high school students – Assistant (2013)
 - Assemble a small robot to demonstrate the principles of engineering to potential future students.
- Power Distribution in Puerto Rico Conference
 - Review the current placement and distribution of energy in Puerto Rico as well as future projects in renewable energy.
- Power Measurement of a Buoyancy Prime Mover (IAERG), 2012
 - Member in the power analysis research interdisciplinary team - Analyze the potency output and research more efficient ways to maximize power output.
- Arduino Microcontroller Basics Conference, 2012
 - Learn the basics in Arduino microcontroller programming as well as example workshop, 2012
- Pan Pepín Inc.-Bayamón, Puerto Rico, 2012
 - Technical visit to the Pan Pepín factory
 - Observe firsthand the inner functions using engineering principles in a bread factory.
- Installation of Photovoltaic Cells Conference, 2011
 - Learn the basics of how photovoltaic cells work and the installation of solar panels, 2011

WORK HISTORY

ABBVIE BIOTECHNOLOGIES, LTD – Barceloneta, Puerto Rico (Internship)	2014
PUERTO RICO ELECTRIC POWER AUTHORITY – Toa Baja, Puerto Rico (Internship)	2013

AFFILIATIONS & MEMBERSHIPS

- Institute of Electrical and Electronics Engineers (IEEE), Inter American University of Puerto Rico - Bayamón Campus-Student Member
- American Society for Quality (ASQ), Puerto Rico Section 1500-Student Member
- National Society of High School Scholars (NSHSS), Academia Santa Teresita – San Juan, Puerto Rico-Member
- Writer/Composer/Musician/Bassist/Guitarist, Lilium Relay – Band,Caguas, Puerto Rico