

# RAFAEL A. GONZÁLEZ, PE

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## EDUCATION

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**University of Miami School of Business Administration**, Guaynabo, PR  
*Executive Master of Business Administration, 2015*

**University of Puerto Rico Mayagüez Campus**, Mayagüez, PR  
*Bachelor of Science in Electrical Engineering, 2012 **Magna Cum Laude***

## CONTINUING EDUCATION

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- Certified Installer of Photovoltaic Systems (OEPPE-PV-1360)
- Penn State: Hands-On Introduction to Nanotechnology Workshop
- Licensed Journeyman Electrician
- QBS: Lean-Six Sigma Green Belt Course
- BEC: CAPA System Expert Certification for the FDA-Regulated Industry

## PUBLICATIONS AND PATENTS

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- Juan, E., González, R., Albors, G., Ward, M., Irazoqui, P., Vagus Nerve Modulation Using Focused Ultrasound: Potential Applications and Preliminary Observations in a Rat, *International Journal of Imaging Systems and Technology*, vol. 14, no. 1, pp. 67-71, 2014.
- Smart Recycling Bin (Provisional Patent pending via University of Puerto Rico Mayagüez Campus)

## WORK HISTORY

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**Genesis Green Systems, Corp.** (Feb '15 – Present)  
*Designer / Project Manager*

- Designed over 80 kW DC of Photovoltaic Systems.
- Perform site surveys, inspections and maintenance.
- Proficient in PR GEF Tier 1 application process.
- Apply project management skills to minimize costs.

**Instituto Tecnológico de Puerto Rico - Recinto de San Juan** (March '14 – May '15)  
*Biomedical Engineering Technology Instructor*

- Offer coursework on Electrical/Electronics Systems, Healthcare Facility Administration, and Physiological Signals/Systems.
- Maintain regular office hours, to be reachable by students.
- Grade different student work e.g. exams, laboratory reports & oral presentations.
- Collaborate with fellow instructors to improve current department offering.

**Johnson Controls, Inc. Puerto Rico - Eli Lilly Facilities** (Jan '14 – March '14)  
*GWS Interim Site Ops Supervisor / Facilities Coordinator*

- Coordinate work orders (WO) efficiently at PR5 site.
- Work with subcontracted companies to perform quotes and service requests.
- Share supervisor work load managing Master Electricians and HVAC Technicians.
- Perform change requests to support Eli Lilly facilities compliance.

**Johnson Controls, Inc. Puerto Rico - Bristol-Myers Squibb (BMS) Facilities** (April '13 – Jan '14)  
*GWS Operations Compliance Specialist*

- Generate and maintain GxP and non GxP documentation.
- Identify and resolve quality issues related to BMS facilities compliance.
- Responsible for all investigations, CAPAs and audits related to Global Workplace Solutions (GWS).
- Perform change requests to support BMS facilities compliance.

**BARD Puerto Rico - XenMatrix & SeptraMesh / BMD & Fixation Divisions** (May '12 – April '13)  
*Manufacturing Engineer*

- Responsible to provide technical support and improve processes to minimize costs.
- Performed investigations regarding material non-conformance quality events.
- Developed solutions to production problems relating to materials, processes and tooling via component qualifications and change requests.
- Pursued Green Belt project aimed to design a flexible layout for 3 demand scenarios based in a line balance exercise.

## SKILLS

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- Proficiency in engineering applications: MATLAB, LabVIEW, Multisim, EAGLE
- Proficiency in productivity applications: MS Office, eCC: MasterControl/DCA, QMS: TrackWise, CMMS: Maximo 6.2, L<sup>A</sup>T<sub>E</sub>X
- Familiarity with: UNIX, Linux Ubuntu, Assembly, C Language, BASIC, Fortran, HTML, PHP
- Equipment Experience: PLC, MSP430 Microcontroller, Function Generator, Oscilloscope, AC Gaussmeter
- Communications: teamwork oriented, interpersonal skills, leadership traits, fluent in Spanish and English

## HONORS AND AWARDS

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- Feb '14 Jose Jaime Pierluisi Foundation UM Executive MBA Scholarship recipient, San Juan, PR.
- March '12 Nominated for Top Student of Department Award at UPRM, Mayagüez, PR.
- Nov '11 ABRCMS poster award in Engineering, Physics and Mathematics category, MO, USA.
- Nov '11 ABRCMS poster award in Interdisciplinary Research category, MO, USA.
- April '11 3<sup>rd</sup> Prize Winner in poster presentation under the Stem Cell & Regenerative Medicine category at Harvard Medical School during the New England Science Symposium (NESS), Boston, MA.
- Jun '07 Early Identification Program presentation to Caribe GE Puerto Rico Headquarters staff, San Germán, PR.
- Sep '05 College Board Award for achieving the highest score on three Advanced Placement exams nationally, San Juan, PR.
- May '04 Named high school Valedictorian, Mayagüez, PR.

## EXTRACURRICULAR ACTIVITIES

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- Societies Tau Beta Pi Honor, IEEE, CIAPR, ACONER, USGBC
- Volunteer Work Aiken High School Homework Helper at Cincinnati, OH; “Centro Misión Rescate” drug rehab center visit at Mayagüez, PR; Created HandcraftsOnly.com to give back to the Puerto Rican community by allowing the sale of other artists works through the website; Treasurer of Luquillo Surf Rescue Services Information & Environmental Conservation, Inc.
- Hobbies basketball, running, water sports, traveling & networking, reading, electronics hobbyist