

# 1. Frederick Y. González Román

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## EDUCATION

### University of Puerto Rico, Mayagüez Campus

Bachelor of Science in Industrial Engineering

Minor in Project Management

Expected Graduation Date: May 2022

GPA: 3.64/4.00

### Lean Six Sigma Yellow Belt Certification

August 2019

- Awarded after completing White Belt training, as well as executing various Kaizen events, accomplishing the objectives of the sponsor and successfully carrying out two relevant projects in the industry

## WORK EXPERIENCE

### Amazon – Rialto, California

Jun 2021 – Aug 2021

*Operations Area Manager Intern – LGB7 Amazon Robotics (AR) Sortable Fulfillment Center (FC)*

- Redesigned the site's process for handling empty yellow totes (EYT), a key component of both Inbound and Outbound operations, to improve logistics and maintain FC's EYT under goal threshold
- Defined site's EYT capacity, established escalation matrix on actions to take regarding excess totes, developed new process's standard work document and updated previously developed tools to fit new model's needs while reducing allotted headcount by 12%

### Eli Lilly and Company – Carolina, PR

Jan 2021 – May 2021

*Productivity Engineering COOP – Competitive Continuous Improvement Department*

- Designed and performed a series of sampling studies in the Fermentation and Culture Lab manufacturing areas to analyze operator utilization, identify areas of opportunity, and improve productivity
- Developed a regression model capable of predicting the optimal number of operators to maximize utilization and support production over different Start-to-Start scenarios of the production
- Co-Facilitated a 5S & 8W Lean Manufacturing training session for the Spring term's COOPs

### U.S. Department of Homeland Security – Remote

Jun 2020 – Aug 2020

*DHS Summer Research Team Program for Minority Serving Institutions - Individual Emergency Response and Recovery: a learning experience from Puerto Rico's encounter with Hurricane Maria*

- Developed a mathematical model utilizing inventory control framework in order to maximize the wellness level of an individual throughout the first 48 hours of a hurricane
- Created and developed the *Individual Wellness Inventory Level Log (iWILL)* mobile application for the model, which provides a checklist of solutions based on submitted events to improve the individual's decision-making process, wellbeing, and overall wellness level during disasters
- Paper of the project was accepted for publication in the Journal of Emergency Management (JEM) and team was awarded a \$50k grant by the DHS to continue research project

### Becton Dickinson (BD) – Humacao, PR

Jun 2019 – Aug 2019

*Engineering Intern – Summit Kaizen Competition: First Place*

- Used Lean Six Sigma methodology to remodel the company's Tier meetings' structure in order to increase their effectiveness; standardized manufacturing lines' dashboards utilizing the SQDCI metric
- Optimized gowning area layout to maximize space utilization, and gowning clothing to reduce time waste
- Improved gowning laundry process achieving \$58k in annual savings

## LEADERSHIP EXPERIENCE

### Loxodon-1's Test Stand Department – Alpha Astrum

Aug 2020 – Sept 2021

*Safety Manager*

- Active member of a team designing, manufacturing, and testing Puerto Rico's first liquid rocket engine
- Evaluated safety hazards, performed risk assessments, Fault Tree Analyses, and FMEAs to ensure the safety of the personnel and equipment during manufacturing and hot fire testing of the engine

### Engineering Faculty Student Council - UPRM

Aug 2018 – Jun 2020

*Secretary of Finance; Councilor*

- Represented the voice of over 5,000 engineering students at UPRM
- Reviewed and amended the Internal Regulations of the body as part of the Law and Regulations Committee

## SKILLS

- Fully Bilingual (English - Spanish)
- Intermediate knowledge in statistical software: Minitab, R, Excel, StatFit, Lingo
- Intermediate knowledge in Python and MatLab programming languages
- Proficient on MS Office, G-Suite, SketchUp, and Microsoft PowerApps
- Knowledge on AutoCAD and Autodesk
- Teamwork and leadership skills