

## EDUCATION

**Polytechnic University of Puerto Rico** Aug. 2011 to May 2017  
B.S. Industrial Engineering

**Springboard** Oct. 2020 to Current  
Certification Data Science 2021

## SKILLS

**ENGINEERING:** Lean Six Sigma, Statistical Quality Control, Critical Thinking, Probability, Problem-solving, Teamwork, Structural analysis

**PROGRAMMING:** Python, SQL, Machine Learning, Pandas, NumPy, Scikit-Learn, Statistics, Data Manipulation, Data Analysis, Data Visualization

## EMPLOYMENT

**Springboard Data Science Career Track** Oct. 2020 to Apr. 2021

Student

- 500+ hours of hands-on course material, with 1:1 industry expert mentor oversight and completion of 2 in-depth portfolio projects.
- Mastered skills in Python, SQL, data wrangling, data visualization, hypothesis testing, and machine learning.

### BOSTON SCIENTIFIC

Industrial Engineer

Dorado, PR  
Sept. 2018 to Dec. 2018

- Performed a Kaizen event to increase labor efficiency by 20% and space optimization by 40% of the packaging area
- Collected data by time study and performed line balancing by data analysis to determine the production line's capacity.
- Developed a standardized work in mainline to reduce foreign materials in trays.

### MEDTRONIC

Associate Quality Engineer

Catano, PR  
June 2018 to Sept. 2018

- Performed activities related to creating reports, document control, change controls and audits for warehouse re-localization.
- Ensured that corrective measures met acceptable reliability standards and that documentation was compliant with requirements
- Modified, applied, and maintain Data quality standards and protocol for processing materials into partially finished or finished materials product

### BUSINESS IMPROVEMENT & MARKETING SOLUTION

Consultant Engineer

San Juan, PR  
May 2017 to June 2018

- Trained 500+ government and public workers on how to fill the Single-Employer Act survey form correctly.
- Collected and analyzed more than 30,000 data to identify variance, service needs and, human resources for the restructuring of the Puerto Rico Family department.
- Provided data insights into basic improvement methodology and tools to the Puerto Rico Family Department
- Designed a proposal to improve space utilization by 40% at the Gonzalez Padin Building, projecting a \$1 MM reduction per year.
- Collaborated with the IT department by identifying, collecting, and creating a Dashboard of the critical measures and performance metric targets.

## PROJECTS

**SPRINGBOARD- PRODUCTION LINE SIMULATION PROJECT** Nov. 2020 to Feb. 2021

SimPy is a process-based discrete-event simulation framework based on standard Python and was used to create the Production line simulation. I performed data analysis to identify trends and circumstances that make the production line's inconsistent with meeting the daily goal and creating the simulations' parameters with the data analysis findings—created different scenarios to the simulation to measure how they affect the production line output.

**BOSTON SCIENTIFIC- SPACE OPTIMIZATION** Aug. 2016 to Mar. 2016

- Performed a Kaizen event to increase the labor efficiency by 20% and space optimization by 40% of the packaging area
- Applied statistical quality control to assess the behavior of annual demand and employed layout improvements to increase production.

## AWARDS

**First Place winner - QUEST COMPETITION** May 2016

- Performed a time study analysis and used statistics and quality tools to determine the possible causes of medical devices' manufacturing.
- Developed techniques and recommendations to improve process flow and reduce delays.