

## 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

## SUMMARY

Result-driven industrial engineer applying statistical tools within the lean practices for continuous improvement projects, currently seeking to use proven Python and SQL skills to deliver coding excellence. Working with Springboard to develop programming skills, worked on several case-studies, and performed EDA and machine learning projects.

## 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** Dorado, PR  
Industrial Engineer Sept. 2018 to Dec. 2018

- Collected data by performing time study and developed a production line balancing using data analysis techniques to determine its capacity
- Conducted a data-driven root-cause analysis of foreign materials in trays and create a standardized work to reduce the problem
- Communicate progress and results through presentations and reports in team meetings

**MEDTRONIC** Catano, PR  
Associate Quality Engineer June 2018 to Sept. 2018

- Performed activities related to creating reports, 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** San Juan, PR  
Consultant Engineer 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 restructuration 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

- Performed exploratory data analysis (EDA) to identify possible trends and circumstances that cause the production lines inconsistent to meet the daily demand.
- Used SimPy to create a simulation to visualize how possible solutions improve 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.