

Roberto Salazar

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EDUCATION

State University of New York at Binghamton

Master of Science (MS) in Industrial and Systems Engineering
GPA: **4.00/4.00** | Alpha Pi Bu Industrial Engineering Honor Society

Binghamton, NY
August 2018 – Expected August 2020

University of Monterrey (UEM)

Bachelor of Science (BS) in Industrial and Systems Engineering
GPA: **3.97/4.00** | Cum Laude | Dean's List: Fall 2015 – Spring 2019

Monterrey, Mexico
August 2015 – December 2019

TECHNICAL SKILLS

Languages: Python, VBA

Statistical Software: R, Minitab

Optimization Software: GAMS, AMPL

Engineering Tools: Tableau, SQL, MS Visio, AutoCAD, Siemens NX, Simio, Microsoft Office

PROFESSIONAL EXPERIENCE

Memorial Sloan Kettering Cancer Center

Process Improvement Engineer

New York, NY
July 2019 – Present

- Oversaw quality data collection and reporting processes; turned data into valuable business insights through digital dashboards
- Facilitated and managed multiple quality and process improvement projects adopting lean, six sigma, DMAIC and PDSA frameworks
- Served as an expert resource on quality analysis and investigation; led out Root Cause Analyses on adverse events and near misses using techniques and tools such as process mapping, Pareto chart, Ishikawa diagram, correlation analyses and 5 whys
- Developed a machine learning classification model using text mining to predict the occurrence of adverse events based on patients' medical conditions
- Delivered high quality ad-hoc reports on productivity, staff performance and system value using advanced statistical programming and business analytic skills

State University of New York at Binghamton

Optimization and Operations Research Teaching Assistant

Binghamton, NY
January 2019 – May 2019

- Instructed Optimization and Operations Research undergraduate course to 40 students by designing lectures, leading discussions, demonstrating procedures, fielding questions and grading students' assignments and tests
- Provided students with tutoring sessions during office hours and regular out of class assistance

GE Healthcare

Supply Chain Summer Intern

Monterrey, Mexico
June 2018 – July 2018

- Monitored proactively operations for changing business requirements and process bottlenecks
- Analyzed workforce utilization, facility layout and operational data such as production costs and production schedules to determine efficient utilization of workers and equipment
- Helped defining, designing and improving the distribution standard operational processes of suppliers to maximize process efficiency and productivity
- Implemented change initiatives projects to achieve desired results by supporting and monitoring the execution of transformational change and processes
- Ensured an optimal fit between people, processes, technology and tools through direct observations, data collection and statistical analysis of processes

British American Tobacco

Operations Management and Safety Intern

Monterrey, Mexico
July 2017 – May 2018

- Performed Process Failure Modes and Effects Analyses (PFMEA) to evaluate and correct processes proactively preventing failures to occur
- Conducted Manufacturing Process Risk Assessments (MPRA) to explore ways to avoid unnecessary costs, time delays and poor-quality products
- Produced databases, tools and reports for storing, summarizing, visualizing and root causing safety reports data; analyzed patterns and trends within datasets for the design and development of preventive and corrective actions plans
- Redesigned and executed with a cross-functional management team the Employee Safety Program through machinery and personnel audits; reduced production stoppages related with human accidents

Spitzer Industries

Data Analyst Summer Intern

Houston, TX
June 2016 – July 2016

- Developed, maintained and improved manufacturing metrics and reporting tools
- Prepared financial and operational data for annual business plan and production forecasts; presented report to top management
- Analyzed projects costs, key process indicators and resources distribution for future optimization based on demand prediction modeling

CERTIFICATIONS

Lean Six Sigma Green Belt

Certifier: State University of New York at Binghamton

Binghamton, NY
April 2019

Internal Auditor ISO 9001:2015

Certifier: Société de Générale de Surveillance

Monterrey, Mexico
December 2017

PUBLICATIONS

Data Analytics for Industrial and Systems Engineers

Publisher: Medium – Profile: <https://medium.com/@rsalaza4>

New York, NY
October 2019 – Present

- Published articles related with data science and data analytics applied into industrial and systems engineering contexts (e.g. lean, six sigma, quality assurance, process improvement, inventory management and operations research)