

Sebastián Rolando

Electronics Engineer / Data & Analytics Expert (Operations & Supply Chain Optimization)

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🔗 [Portfolio Link](#) 🔗



I am an Electronics Engineer and Senior Data Analyst specialized in the optimization of industrial operations. I apply Machine Learning and Data Science techniques to solve complex problems across interconnected areas such as Supply Chain, Maintenance, Procurement, Quality, and Production.

I have designed and implemented end-to-end solutions, generating savings of ~USD 255K/year and reducing stock-outs from 14% to 2%, among other achievements. My expertise in Python (Pandas, Scikit-learn, Statsmodels), SQL, and statistical/time series analysis is complemented by a deep understanding of industrial processes. This allows me to transform data into decisions with a direct impact on efficiency and costs.

Throughout my career, I have consistently developed new roles, led multidisciplinary teams, and bridged business goals with technology, with a clear focus on creating value in challenging environments.

Experience

Boortmalt (ex-Cargill) | 2019 – 2025

Warehouse Lead & Data Scientist

06/2019 – 07/2025

Led warehouse operations and developed Data Science projects generating savings of ~USD 255K/year, reducing stock-outs from 14% to 2%, and enabling process digitalization.

- **Data & Analytics:** Designed and implemented end-to-end solutions:
 - Developed a real-time price deviation [alert and analysis system](#) with a potential annual savings of USD 150–200K.
 - Created a multi-metric [framework](#) (47) that identified 45% of obsolete stock and optimized purchasing policies.
 - Built an [anomaly detection](#) model (EWMA, Z-score) that prevented USD 58K in consumption and reduced downtime.
 - Performed a productive quality [performance](#) analysis based on 13 years of data for technical-commercial support.
 - Developed [process mapping](#) and plant sensor tool for a global digitalization and integration project.
- **Leadership & Management:** Directed procurement strategy for 5,500+ items and led the operational warehouse team for a malt plant (350,000 TN/year). Managed the implementation of two digitalization projects: [QR-based](#), material dispatch and inventory, resulting in USD 55.6K in savings (an 89.1% reduction) in operational costs over 5 years. Contributed to budget optimization through data projects and adherence to ISO standards (including certification), supporting a plant reliability rate of >98.4%.

Cargill | 2015 – 2019

Warehouse Lead

02/2018 – 06/2019

Led the "Alvear Plant Warehouse" project, which involved the creation of a new warehouse sector for a 350,000 TN/Year malt plant, aligning the facility with international standards and best practices. Key responsibilities and achievements included:

- Performed the economic and operational justification for the project. Designed the layout to meet the plant's technical supply requirements, incorporating EHS (Health, Safety, and Environment), Quality, Maintenance, and Operations needs.
- Developed internal and external operational procedures and workflows linking to other departments, including processes for material creation, obsolescence analysis, Purchasing Expediting, and others.
- Conducted the analysis, definition, and creation of a material database in IBM Maximo, which included descriptions and a purchasing strategy with reorder points for each of the 5,500+ items.
- Recruited and trained personnel for the Warehouses and Purchasing teams.
- Managed the physical and systemic movement of materials into the Warehouse, adhering to 5S methodology, Lean principles, MRO Store standards, and other complementary management processes.
Initially executed basic Warehouse operations without a physical facility to ensure normal Plant functioning.

Maintenance Planner

08/2015 – 02/2018

Developed and optimized work plans, incorporating procedures, permits, and technician experience levels to ensure safe and effective operations.

- Planned and identified necessary tasks for executing maintenance work on operations. Defined work plans that included materials, permits, tools, procedures, and the required number of technicians, carefully considering experience levels for each task.
- Served as the Subject Matter Expert (SME) and Key User, providing support to users of the Maximo system, which was used to manage work orders and equipment data.

Maintenance Scheduler

10/2013 – 08/2015

Led the scheduling of preventive maintenance, ensuring its ongoing update and optimization in collaboration with the team of supervisors and in coordination with production planners. A crucial part of my role involved training and supporting the entire maintenance team during the SAP PM implementation process.

- Successfully led the implementation of SAP PM within just 4 months by coordinating with IT (local and consulting firm), Maintenance, and the Warehouse to migrate and structure equipment information and maintenance plans.
- Trained Maintenance and Production teams on the use of SAP PM and the management of work notifications.
- Managed the scheduling of work orders and optimized plans, master data, and updates in SAP PM for the entire plant (the only one in the country).
- Collaborated with IT to develop Maintenance KPIs within SAP, enabling their rapid and efficient generation.

Ab Inbev | 2012 – 2013

Maintenance Analyst

08/2012 – 09/2013

Managed maintenance planning and budgeting, inventory optimization, and quarterly audits. Implemented autonomous maintenance alongside the team, aligned with TPM (Total Productive Maintenance) principles.

- Scheduled, planned, and tracked the maintenance budget, in addition to managing the spare parts inventory and coordinating with suppliers for various jobs.
- As the Subject Matter Expert (SME), played a key role in the SAP system migration by providing training to other departments. Also conducted audits in various areas, including 5S, safety, and environmental issues, to drive continuous plant improvement.

Dow Chemical | 2007 – 2007

Activity Coordinator

2/2007 – 08/2007

Managed the planning and productive coordination from five polyethylene plants to the Bagging sector with a total of 10TN/Hr, while simultaneously coordinating preventive maintenance. Also improved bagging and logistics procedures, addressing and solving quality issues on the bagging lines caused by underweight.

Education

Electronics Engineer, Universidad Tecnológica Nacional, Bahía Blanca campus, 2012.

Postgraduate Diploma in Business Analysis, Universidad Tecnológica Nacional, Buenos Aires campus, 2017.

Skills

Languages & Libraries

SQL | Python (Pandas | NumPy | Scikit-learn | Statsmodels | Matplotlib | Seaborn | Plotly) | Chainlit

Techniques & Methods

Machine Learning | Statistical Analysis | Time Series Analysis | Anomaly Detection | Feature Engineering | Correlation & Causality Analysis | Data Communication & Dashboarding

Tools & Platforms

Power BI | Git | Jupyter | VS Code | Scrum/Agile | Deepnote

Domain Expertise (Value-Add)

Inventory Management (MRO) | Supply Chain | Procurement | Maintenance Management | Industrial Production | Lean Six Sigma (Green Belt) | 5S | TPM | SAP | IBM Maximo

Languages

English: Advanced | Italian: Intermediate

Additional Training

- SQL for Data Science – University of California, Davis, 2025
- Data Science Applied to Business | 6 Real Case Studies – Udemy, 2024
- Complete Machine Learning Course: Data Science in Python – Udemy, 2023
- Warehouse Productivity – Axenfeld., 2021
- Lean Six Sigma - Cagill Minneapolis, 55343 USA, 2019
- Six Sigma & Green Belt - UTN FRBA, 2015
- SAP PM 6.0 Trainer - AbInbev - C. and M. Quilmes, Buenos Aires, 2013
- Maintenance Planning - AbInbev - C. and M. Quilmes, Buenos Aires, 2012