

José Adrián Naranjo Araya

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About Me

Biomedical and Electronics Engineer with over 8 years of experience in data analysis across the semiconductor, food, and pharmaceutical industries. Proactive and fast learner, always eager to acquire new knowledge and apply it effectively. I am seeking new challenges in the biomedical sector to leverage my expertise in data-driven decision-making, clinical research programming, and bioinformatics, with the goal of generating meaningful impact.

Skills and abilities

Technical: R, Python, SAS, SQL, PowerBI, Power Apps, Power Automate, Git, Linux CLI.

Hard: Clinical Trial Data Standards (CDISC), Data Cleaning & QC, Bioinformatics Workflow, Automated Reporting, Data Visualization, ETL Processes, ERP Migration, Agile/Scrum Methodologies in Clinical Data Environments.

Soft: Attention to Detail, Communication, Problem Solving, Team Collaboration and Adaptability in Agile Environments, Project Leadership.

Experience

Data Science and Automation Specialist – Freelancer Mar 2025 – Present

As an independent consultant, I have collaborated with companies in sectors such as Human Resources, Manufacturing, Accounting, and Professional Services, helping them optimize processes through automation, data analysis, and intelligent visualization.

I was responsible for designing and developing business applications using Power Platform (Power BI, Power Apps, Power Automate), integrated with SQL and MySQL databases, improving traceability and operational efficiency by over 60%.

I implemented strategic Power BI dashboards that consolidated multiple data sources, enabling executive teams to make informed decisions in real time. These dashboards included margin analysis, overtime tracking, and automated commercial forecasts.

I designed automation flows that replaced manual tasks such as data entry, report distribution, and version control, reducing errors and saving up to 20 hours per week for operational teams.

Additionally, I developed custom integrations using Python and Microsoft Graph API to manage files and lists in SharePoint Online, enhancing productivity and collaboration among remote teams.

My work has enabled clients to scale critical processes, reduce manual dependencies, and strengthen data governance, driving practical and sustainable digital transformation.

Statistical Programmer – Fortrea (Formerly Labcorp) Mar 2023 – Dec 2023

I joined a clinical programming team working on regulatory submission studies where SAS was the primary tool for managing and analyzing clinical trial data in compliance with CDISC standards.

I was responsible for developing, validating, and maintaining SAS programs to generate SDTM and ADaM datasets, as well as outputs such as tables, listings, and figures (TFLs) for regulatory review and client deliverables.

I created and quality-controlled SDTM and ADaM datasets using client-defined specifications. I also produced Define.xml/PDF files, Analysis Results Metadata (ARM), annotated CRFs, and Reviewer's Guides to support submission packages.

Additionally, I contributed to the review of SAPs and TFL shells, and supported audit responses alongside senior programming staff. I actively shared best practices on using SQL within SAS and Agile methodologies during internal knowledge-sharing sessions.

My contributions ensured timely delivery of high-quality data and outputs, improving consistency in submission packages and audit readiness. The SQL/Agile knowledge sessions enhanced team productivity and standardization in programming practices.

Data Analyst – Corporación Manza Té, Jan 2021 – Mar 2023

The company was experiencing delays and inefficiencies in sales reporting, financial forecasting, and production processes due to fragmented data systems and manual workflows.

I was tasked with improving data visibility across departments, automating key processes, and leading the

technical transition to a new ERP system to modernize operations.

Optimized sales and financial dashboards in Power BI, reducing the insights lag from one month to real-time updates with bi-daily refreshes using SQL.

Enabled the accounting team to monitor the company's balance daily, improving forecasting accuracy.

Built a cost simulator in Python to help the operations team evaluate the financial impact of price changes on product structures. Automated repetitive reporting and administrative tasks with Python scripts and PowerApps, significantly improving operational efficiency.

Additionally, I led multiple production line automation initiatives to reduce human error, and served as the Project Manager for the company's ERP migration, ensuring smooth implementation and adoption.

These efforts transformed data access and decision-making across the company, reduced manual effort, minimized errors in production, and improved agility in both strategic and day-to-day operations, reducing the access time to relevant information from 30 days to under 1 day (2x daily refreshes).

Product Development Engineer – Intel, August 2016 - March 2020

As part of the Product Development Engineering team at Intel, I contributed to the validation of server-grade microprocessors (Xeon family) in a highly collaborative environment with cross-continental teams.

My responsibilities included ensuring functionality and performance of processors through rigorous testing in both pre-silicon and post-silicon phases, as well as streamlining test development workflows.

Developed automated Python scripts to optimize test setup and data analysis processes.

Collaborated closely with teams from the United States, Mexico, and Malaysia on the implementation of test programs and debug strategies.

The automation and test improvements I implemented increased validation efficiency, reduced turnaround time for testing cycles, and strengthened inter-site coordination, directly impacting the reliability and speed of product release cycles for Xeon processors.

Education

- Licentiate Degree in Biomedical Engineering, Universidad Latinoamericana de Ciencia y Tecnología (ULACIT) - Cum Laude Probatus
- Bachelor's Degree in Electronic Engineering, Universidad Latinoamericana de Ciencia y Tecnología (ULACIT)

Languages

- Native: Spanish
- Foreign Languages: English - Level: C1, Italian - Level: B2

Achievements

Intel:

- Award Level: Excellent achievement, significal business unit impact. Value: Quality - Continuously Learn. For successful deployment of IPcentric content set for OPIO on EV and HVM platforms, improving content enabling time.
- Award Level: Excellent achievement significal business unit impact. Value: Great Place To Work - Work As A Team. Team embraced new TFM to enable 20x DV data collection supporting shift left E2E assessment of new TC IP to de-risk.
- Award Level: Excellent achievement significal business unit impact. Value: Results Orientation - Execute Flawlessly. Worked jointly to enable 1.0 IPs in a challenging environment (US and PG different time zone).

Certifications

Disciplined Agile Scrum Master - DASM (PMI) - In progress

Clinical Data Science (Coursera) - In progress

Legal

I authorize the processing of personal data contained in my curriculum vitae in accordance with Legislative Decree 196/2003 and EU Regulation 2016/679.