Diego D'Amaro

Data Engineer

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View my online portfolio: https://diego.stroom.com.br/

PROFESSIONAL SUMMARY

I'm a Data Engineer with a degree in Automation and Control Engineering from Centro Universitário FEI. I build data-driven solutions, system integrations, and process automations - tools and pipelines that improve operational efficiency, strengthen information reliability, and support strategic decisions.

My experience spans intelligent monitoring, Business Intelligence, IoT, Artificial Intelligence, and digital transformation, connecting data, technology, and business through practical, results-oriented work.

TECHNICAL SKILLS

languages: Python · SQL · JavaScript / TypeScript · C

data & integration: Power BI · Tableau · Spotfire · ETL · APIs

iot & simulation: MQTT · ESP32 · Plant Simulation · MATLAB

PROFESSIONAL EXPERIENCE

Data Engineer - Post-Operation

H2energy | May/2026 - present

Develops post-operation systems and data engineering solutions to support strategic decisions and operational optimization. Automates and improves processes with a focus on efficiency and information reliability.

Data Engineer

AYA Energia | Mar/2026 - May/2026

Developed monitoring systems and automations to support distributed generation operations. Integrated APIs, SQL, and BI tools (Power BI, Tableau, and Spotfire) to make operational data available for analysis and decision-making, with a focus on information quality.

Operations & Maintenance Analyst

AYA Energia | Feb/2025 - Mar/2026

Monitored solar plants using IoT data, dashboards, and performance indicators to support generation optimization. Analyzed KPIs and managed alarms to inform operations and maintenance actions.

Founder · Stroom (parallel venture)

stroom.com.br | 2025 - present

Founded a bespoke software studio alongside data engineering roles, with 4+ active clients. Develops websites, custom systems, integrations, and automated workflows.

EDUCATION

MBA in Software Engineering

FIAP · 2026 - 2027 (in progress)

I'm currently pursuing an MBA in Software Engineering at FIAP, deepening my knowledge of software architecture, cloud, scalability, and modern engineering practices. This complements my work in data with a stronger foundation for building robust, high-impact solutions.

B.Eng. Automation & Control Engineering

Centro Universitário FEI · 2020 - 2024

SELECTED PROJECT

Digital Twin of a Robotic Manipulator

Capstone - Automation & Control Engineering / FEI

Simulation and integration of a robotic manipulator via Siemens Plant Simulation, with real-time data acquisition (MQTT, ESP32-S3, voltage/current sensors and MPU6050) and a monitoring dashboard. Presented at INOVA FEI 2024.

2nd best capstone of the cohort - INOVA FEI

EARLIER EXPERIENCE

Programs & Operations Analyst

Enel Brasil - Internship | Sep/2023 - Mar/2024

Interactive dashboards for decision support and large-scale operational fault detection.

Engineering Intern

Aliseu Tecnologia - Internship | Jun/2023 - Aug/2023

Developed electro-electronic prototypes and maintained electrical/electronic equipment applying IoT, microelectronics and additive manufacturing (3D printing). Worked with electric motors, automation systems, instrumentation, hardware/software integration, and embedded and high-level programming in C and Python.

External Relations

CAEAC FEI - Academic Council | Aug/2022 - Dec/2024

Organized technical events presenting emerging industry technologies to Automation & Control students, while mentoring peers throughout their studies, fostering academic integration, professional development and industry connection.

Development Team Member

Formula FEI Racing Team - Internship | Sep/2021 - Feb/2022

Worked on the electrical systems of the Formula FEI Electric vehicle - automotive electrical systems, electronics, instrumentation and system integration in a multidisciplinary environment.

SELECTED COURSES

Power BI Professional · Jun/2024 · Python 3 (Alura) · 2022–2023 · Plant Simulation & SimTalk · Nov/2024 · Decision-Making with Analytics · Feb/2025 · Data Visualization · Feb/2025