Sébastien Oger

BI Analyst — Power BI, Automation & Business Processes

Montreal, QC
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SUMMARY

I build Power BI reports, SQL queries, data pipelines and applications that automate business processes. Microsoft-certified Power BI Data Analyst (PL-300), with reports running in the Power BI Service and a Power Apps nonconformance management app. As Quality Manager at an ISO/IEC 17025-accredited testing laboratory, I am the data owner for its laboratory information management system (LIMS) implementation and have standardized, then automated, the team's processes. Self-taught in building business solutions for over five years, I bring what six years of running a quality system teach: rigour about where a figure comes from, traceability, and catching drift before the complaint arrives.

SKILLS

Business Intelligence & Data: SQL, Power BI (Service, data gateway), Power Query, dimensional modeling (star schema), ETL and data preparation, data quality and governance, dashboards and KPIs

Automation: Advanced Excel and VBA, self-hosted n8n, Notion, REST APIs and webhooks

Business Processes: Business rules extraction and formalization (ASTM, CSA standards), requirements gathering and translation, requirements specification, process mapping, business case, master data and software implementation (LIMS)

AI-assisted development (Claude Code): DAX, Python, dbt, PostgreSQL, Power Apps, Power Automate, Git

Quality Systems: ISO/IEC 17025, accreditation assessments (SCC), CAPA and root cause analysis, document control

CERTIFICATIONS

Microsoft Certified: Power BI Data Analyst Associate (PL-300) · June 2026
Microsoft Certified: Azure Data Fundamentals (DP-900) · July 2026
Microsoft Certified: Power Platform Fundamentals (PL-900) · August 2026

DP-900 PL-900 PL-300

LANGUAGES

French: native · English: advanced reading, writing and listening; functional speaking

PROFESSIONAL EXPERIENCE

Canadian Materials Testing Bureau (CMTB) · Montreal, QC · 2021 – Present
Metallurgical destructive testing laboratory, ISO/IEC 17025-accredited (SCC) · Founding team member
Quality Manager · 2025 – Present
Laboratory Supervisor · 2022 – 2024
Quality Supervisor · 2021

- Data owner for the LENAVA LIMS implementation since April 2026, after gathering requirements from technicians and coordinators and writing the requirements specification as sole author: master data prepared from structured Excel workbooks; submission module live in September 2026.
- Extracted business rules from ASTM and CSA standards and structured them for the LIMS through a Python pipeline designed and built with AI assistance: requirement rows by grade and property, conditional footnotes included, batches checked by automated controls, then proofread against the standard.
- Standardized, then automated, laboratory processes in Excel/VBA, now in service: operations tracking, calibration due dates for the equipment fleet, rule-based service quotes, an internal consumables store, and an end-to-end CAPA tool.
- Developed Excel dashboards and KPIs at several cadences: daily operations tracking, annual nonconformity analysis, interlaboratory proficiency testing follow-up and result deviation control.
- Led 6 Standards Council of Canada (SCC) accreditation assessments from 2021 to 2026 with no major nonconformity; built out every component of the quality system, including document control.

SGS Canada · Montreal, QC · 2017 – 2020
ISO/IEC 17025-accredited testing laboratory, ISO 9001 and ISO 14001 certified
Metallurgical Technologist · 2017 – 2020

- Performed mechanical testing (tensile, impact, hardness) and welder and welding procedure qualification to ASTM, CSA and ASME standards.
- Sole operator during the pandemic: kept production at 100%.

Chaire des composites à haute performance (Polytechnique Montréal) · Montreal, QC · 2012 – 2013
Composites Laboratory Technician (R&D internships) · 2012 – 2013

MBDA France (EADS) · Le Plessis-Robinson, France · 2010 – 2011
Embedded Electronic Systems Technologist · 2010 – 2011

DATA & AUTOMATION PROJECTS

Montreal Housing Intelligence · Personal project · sebastienoger.ca/projets/montreal-housing · 2026
Real Estate Market Analysis Report: First-Time Home Buyers—Which Neighborhoods in Montreal Are Still Affordable?

- Designed and built, with AI assistance, an unattended weekly pipeline: 9 public datasets from 4 publishers; PostgreSQL and PostGIS on Docker, three-layer dbt SQL models, n8n orchestration with failure alerts; 495 automated tests.
- Built a 4-page Power BI report with 3 maps on a 17-table star schema, published to the web from the Power BI Service; DAX what-if simulation (income, down payment) matching the database to the cent.
- Analyzed home affordability across 541 census tracts : the median price-to-income ratio would have misled, improving by 4.5% from late 2021 to late 2023 while a rising qualifying rate cut the share of affordable tracts from 82.8% to 56.3%.

Nonconformance Management · Personal project · sebastienoger.ca/projets/nonconformity-management · 2026
Carrying a nonconformance through its full cycle, from report to closure, in a shared app instead of a single-user workbook.

- Built a Power Apps canvas app with 13 screens on 11 lists and libraries and 3 Power Automate flows (evidence, PDF report, signed report); statuses computed from recorded facts; no Premium license.
- Built with Claude Code through PnP PowerShell; statuses recomputed by a second implementation, PDF checked against a mock-up, and 151 tests; demonstrated on video with a fictional dataset.

Registered Savings — Power BI · Personal project · sebastienoger.ca/projets/investment-insights · 2026
A single view of registered savings (TFSA, FHSA, RRSP) spread across three institutions whose strategies ignore each other.

- Built a 5-page Power BI report with 66 DAX measures and 21 tables: contribution room rebuilt, time-weighted return, volatility and maximum drawdown per account.
- Running in production on real data through an on-premises data gateway: secured local PostgreSQL feeding a report in the Power BI Service, refreshed by script through the REST API and used on mobile; SQL views cross-checked by an independent pandas recomputation.

QMS Platform — Notion × n8n · Personal project · sebastienoger.ca/projets/quality-management-system · 2025
Centralizing the quality system of an accredited laboratory with no IT department or software budget.

- Designed 38 linked Notion databases in 9 hubs around a single fact table, with 26 n8n automations covering 6 end-to-end processes; ~300 hours of development over 5 months.
- Presented the business case to management, then to the teams: risks with mitigations, costed scenarios, a projected return of ~4 to ~8 times the annual subscription cost; platform not deployed, for budget reasons.

Quality Control by Data · Personal project · sebastienoger.ca/projets/quality-control-by-data · 2026
Tracking the accuracy of an optical emission spectrometer with certified reference samples.

- Rebuilt an Excel/VBA workbook as a web app with AI assistance: control charts (z-score, ±2σ, ±3σ) across 13 elements over 23 months, anonymized data.

EDUCATION

Databases and SQL for Data Science with Python (IBM) — Coursera · ~18 h · May 2026
Microsoft Power BI Data Analyst Professional Certificate (8 courses) — Coursera · ~187 h · April 2026
n8n — Level 1 and Level 2 courses · 8 h · 2026
Graduate Diploma (DESS) in Mechanical Engineering — Polytechnique Montréal · 2015 – 2017
Master's Degree in Advanced Materials and Management (with honours) — Cnam (Paris) / Université Paris-Sud · 2011 – 2013
Professional Bachelor's Degree in Aeronautical and Space Structures — Université Paris 10 · 2010 – 2011