

Sébastien Oger

BI Analyst — Power BI & Data Quality



Montreal, QC

Portfolio: sebastienoger.ca · linkedin.com/in/sebastien-oger-49009382 · github.com/WealthFinPilot

SUMMARY

Quality Manager at an ISO/IEC 17025-accredited testing laboratory and the data owner for its LIMS implementation, from master data to requirements extracted from standards through a controlled pipeline. Self-taught developer of business solutions for over five years, alongside a full-time job; Microsoft-certified Power BI Data Analyst (PL-300). Delivered a housing market analysis end to end, from public data to a Power BI report on a star schema. Brings to business intelligence 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: Power BI, Power Query, SQL, dimensional modeling (star schema), ETL and data preparation, data quality and governance, dashboards and KPIs

Business & Functional Analysis: 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, Git

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

Quality & laboratory: 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

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 LENAVAL LIMS implementation since April 2026: laboratory master data (price list, consumables, suppliers, equipment) kept in structured Excel workbooks, partly modeled in Power Query as key-linked dimension tables; submission module live in September 2026.
- Designed and built, with AI assistance, a Python pipeline extracting requirements from ASTM and CSA standards: requirement rows by grade and property, scanned tables read as images, conditional footnotes; batches checked by automated controls, proofread against the standard and loaded into the LIMS.
- Sole author of the laboratory's business software requirements specification, written before vendor selection (December 2025): business processes from client management to archiving, and functional requirements by domain; handed over to LENAVAL, the selected vendor.
- Developed Excel dashboards and KPIs at several cadences: daily operations tracking, annual nonconformity analysis, interlaboratory proficiency testing follow-up and result deviation control.
- Designed Excel/VBA automation workbooks for laboratory and quality system operations.
- Developed an end-to-end CAPA tool: root cause analysis, actions, evidence, versioned reports with an approval workflow, Pareto trend reviews.
- 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 PROJECTS

Montreal Housing Intelligence · Personal project · sebastienoger.ca/projets/montreal-housing · 2026

Montreal housing market analysis: where can a first-time buyer still afford to buy on the island of Montreal?

- Built a 4-page Power BI report with 3 maps on a 17-table star schema; DAX what-if parameters (income, down payment); mortgage chain recomputed in DAX, matching the database to the cent.
- Designed and built, with AI assistance, an unattended weekly data pipeline: 9 public datasets from 4 publishers, including 29 PDF reports parsed with no human intervention; PostgreSQL and PostGIS on Docker in three layers (raw, intermediate, marts), dbt transformations, n8n orchestration with failure alerts.
- Enforced data quality with 495 automated tests and 5 quality gates, each proven by a deliberately planted defect; every report metric recomputed by an independent script.
- Analyzed home affordability across 541 census tracts and 29 quarters: 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%.

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 as a web app with AI assistance: control charts (z-score, $\pm 2\sigma$, $\pm 3\sigma$) across 13 elements over 23 months, anonymized data, algorithm cross-checked against the original workbook.

Materials Explorer · Personal project · sebastienoger.ca/projets/materials-explorer · 2026

Identifying a steel grade from its chemical composition, without an operator-dependent manual comparison.

- Built a web tool with AI assistance, based on weighted chemical similarity: 386 reference grades, 18 elements weighted per steel family, compliance checked against 330 standardized grades.

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: 7 risks with mitigations, 3 costed scenarios, a projected return of ~4 to ~8 times the annual subscription cost; platform not deployed, for budget reasons.

WealthFinPilot · Personal project · sebastienoger.ca/projets/financial-management-tool · 2024

Personal finance tool that keeps data on the local machine and stays fully editable.

- Built an Excel/VBA application in monthly use: bank CSV statements in varied formats imported through Power Query with guided categorization, annual budget extrapolated from history, quarterly variance tracking; 5 interface languages.

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