

Sébastien Oger

Business Analyst — Process & Data



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; wrote its business software requirements specification before vendor selection, then became data owner for the implementation of the selected laboratory information management system (LIMS). Self-taught developer of business solutions for over five years, alongside a full-time job; my quality management platform models 6 documented end-to-end processes, and its business case was presented to executive management. Six years of running a quality system taught me to find the root cause before proposing a solution, and to tie every requirement to its evidence.

SKILLS

Business & Functional Analysis: Requirements gathering and translation, requirements specification, process mapping (Lucidchart), business case, technical and functional documentation, master data and software implementation (LIMS)

Process Improvement & Quality: Continuous improvement, corrective action (CAPA) and root cause analysis, Pareto analysis, ISO/IEC 17025, accreditation assessments (SCC), document control

Data: SQL, Power BI, Power Query, advanced Excel, data modeling (star schema), data quality, dashboards and KPIs

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

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

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

- Gathered requirements from technicians and coordinators, then wrote, as sole author, the laboratory's business software requirements specification before vendor selection (December 2025): business processes from client management to archiving, functional requirements by domain; approved by the CEO, handed over to LENAVAL, the selected vendor.
- Data owner for the LENAVAL LIMS implementation since April 2026: laboratory master data (price list, consumables, suppliers, equipment) prepared from its structured Excel workbooks; submission module live in September 2026.
- Designed the rules for extracting requirements from ASTM and CSA standards into the LIMS: requirement rows by grade and property, conditional footnotes included; each batch validated by automated checks, then proofread against the standard.
- Standardized, then tooled end to end, the CAPA process: root cause analysis (5 Whys, Ishikawa), actions with owners and due dates, 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.
- Developed Excel dashboards and KPIs at several cadences (daily operations, nonconformities, interlaboratory testing); designed Excel/VBA automation workbooks for laboratory and quality system operations.

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

PROJECTS

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.

- Modeled 6 end-to-end business processes (tasks, purchasing, documentation, compliance, equipment, training): 38 linked Notion databases in 9 hubs, role-based RACI, 26 n8n automations; ~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 under the recommended scenario; platform not deployed, for budget reasons.
- Wrote public documentation in 7 parts: data architecture, n8n workflows, end-to-end business processes, mapping to ISO/IEC 17025 with acknowledged gaps.

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.

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?

- Analyzed home affordability across 541 census tracts and 29 quarters: the median price-to-income ratio would have mislaid, 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%; findings delivered in a 4-page Power BI report.
- Designed and built, with AI assistance, an unattended weekly data pipeline: 9 public datasets from 4 publishers, PostgreSQL on Docker, dbt transformations, n8n orchestration; data quality enforced by 495 automated tests.

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
