

# Bernardo Mendonça

AI Solution Architect · Supply Chain, Analytics & SAP

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**Online:** Case studies: business transformation work · AI systems: the B1Brain ecosystem and private AI lab · Role fit: evidence-based fit check · For AI agents: `llms.txt`, MCP tool `/api/mcp`

## Executive summary

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Supply-chain and analytics leader turned AI architect, with 20+ years in procurement, SAP and data at billion-dollar companies across Brazil, Canada and the USA. Selected through a competitive internal process to lead Analytics & Market Intelligence (a team of business analysts) for the Supply Chain of TC Energy, a leading North American energy infrastructure company. Pulled into a divestiture, a corporate spin-off and enterprise transformation programs for SAP and supply-chain data expertise. In just over a year, architected and built 20+ AI solutions (B1Brain) on a private six-machine AI lab I run myself. I bring the business process, the enterprise data and the AI architecture to the same table. 30 peer recognitions from 27 colleagues, 2018–2026, including 2 Gold and 3 Silver awards.

## Experience

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**Manager, Analytics & Market Intelligence** · TC Energy · Houston, Texas, USA · hybrid  
Oct 2025 – now

- Selected through a competitive internal process to lead a team of business analysts; set direction and priorities and manage budgets, forecasts and resource allocation.
- Built a market-intelligence capability that tracks global supply trends, risks and opportunities, informing sourcing strategy and risk mitigation.
- Delivered a first-ever enterprise spend view on a tight timeline (Gold award, 2026); own data governance, dashboards and KPIs for leadership.

**AI systems architect & builder, B1Brain** · Independent (own work)  
2025 – now

- Architected an ecosystem of 20+ AI solutions (about two dozen repositories) in just over a year, in five layers: gateway and governance, agent orchestration, memory, optimization and knowledge, and industry verticals.
- Designed for enterprise governance: open standards throughout (MCP, OpenAI-compatible APIs, A2A), spend receipts on every model call, deterministic components where reproducibility matters.
- Built and operate a private six-machine AI lab for local models, agent fleets and evaluations, with no data leaving my control.

**Lead Supply Chain Business Analyst** · TC Energy · Calgary, then Houston (from Oct 2023)  
Dec 2020 – Sep 2025

- Translated Supply Chain needs into data, systems and metrics on enterprise-wide programs; defined digital solutions with technology teams and mentored junior staff.
- Trusted to supply SAP data for enterprise transformation programs and a corporate separation; built business cases (cost-benefit, TCO, value capture).
- Delivered invoice-backlog visibility to leaders across all business units; restored a failing Power BI purchase-order pipeline.

**Supply Chain Procure-to-Pay (Canada) Business Analyst** · TC Energy · Calgary, Alberta, Canada  
Jan 2020 – Nov 2020

- Delivered Canada's first SAP mass purchase-order closure: 56k POs with more than 100k lines, closed with zero business impact.
- Led business requirements as main point of contact on a PO-closure automation project; built the purchasing approval flow in Microsoft Power Automate.
- Produced an Accounts Payable on-time-pay (OTP) history 2014–2020 and a new, client-focused view of the PO cycle-time KPI.

**Senior Buyer** · TC Energy · Calgary, Alberta, Canada

May 2016 – Dec 2019

- Cleaned up material and vendor master data, removing inactive materials and vendors.
- Focused vendor reviews with a PO volume and frequency report and ABC analysis; ran a spend analysis of print-services agreements.
- Nine peer recognitions in 2018–2019 for speed, detail and SAP knowledge.

**Buyer** · Vista Projects · Calgary, Alberta, Canada

Jan 2016 – Apr 2016

**System & Business Intelligence Coordinator** · ThyssenKrupp CSA · Rio de Janeiro, Brazil

Nov 2010 – May 2015

- Consolidated procurement performance, spending and savings data into the reports and KPIs used for strategic planning.
- Led long-range warehouse development planning across the ThyssenKrupp Group; built cost/benefit cases for process and system improvements.
- Supply Chain's point of contact for audits; recognized in 2015 by the Legal Vice-President for performance during a crucial internal audit.

**Senior Procurement Analyst** · ThyssenKrupp CSA · Rio de Janeiro, Brazil

Dec 2007 – Oct 2010

- Managed purchasing for more than 15,000 items; set up the first purchasing KPIs and long-term contracts.
- Established long-term agreements that cut procurement lead time and covered more than 15% of materials purchases in their first year.
- Supported the SAP ERP Materials Management (MM) implementation.

**Senior Purchase Analyst (outsourced)** · Vale · Rio de Janeiro, Brazil

Sep 2007 – Nov 2007

- Analyzed, equalized and negotiated commercial bids and contracts from international suppliers.

**Logistics Analyst** · AmBev · Rio de Janeiro, Brazil

Jul 2006 – Sep 2007

- Motivated a 60-person distribution team. Managed the package-loss budget and the movement of assets between the factory and the distribution center.

**Purchase Analyst** · Gerdau S.A. · Rio de Janeiro, Brazil

Mar 2002 – Jul 2005

- Negotiated and supported materials contracts. Key user of SAP MM, supporting end users and system improvements.

## Education & certification

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**SAP Certified Application Associate – Procurement with SAP ERP 6.0 EHP4**

SAP · issued Nov 2011

**Business Intelligence** · Pontifícia Universidade Católica do Rio de Janeiro (PUC-Rio)

**Bachelor in Business Administration** · Universidade Federal Rural do Rio de Janeiro

## Skills

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**AI architecture:** Model gateways and governance, agent orchestration (MCP / A2A), OpenAI-compatible APIs, agent memory & retrieval, QUBO/Ising optimization, JAX / CUDA, Rust, Python, private AI infrastructure

**Supply chain & procurement:** Strategic sourcing, Contract management, Supplier strategy, Inventory performance, Procure-to-pay, Logistics, Market intelligence

**SAP:** SAP MM (certified), SAP ECC, Batch inputs, Data extraction, Ad hoc reports, Master data, Functional specs

**Analytics & BI:** Power BI, Excel, Power Automate, KPI design, Spend & ABC analysis, Cost-benefit / TCO

**Leadership:** Leading a team of business analysts, Coaching & mentoring, Stakeholder influence, Change management, Budgets & forecasts