Frederico Séllos Mattoso

Project Manager | Industrial Innovation | Materials Engineering

Brazil / European Union · Brazilian and Italian citizenship

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Professional profile

Materials Engineer and Project Manager with 12+ years of professional experience across industry, engineering and innovation, connecting execution, technical-commercial insight and AI-enabled project intelligence.

Professional experience

Braskem | 2023 — 2026 Brazil

Senior R&D Researcher · Project Manager (functional role)

- Built project work breakdown structures, integrated schedules, dependency maps and risk registers from the ground up.
- Led cross-functional execution, tracking milestones, deliverables, issues and dependencies; revised project scope and schedule in response to changing priorities.
- Introduced sprint-based execution and project-control practices, including S-curves, structured tracking and milestone reporting.
- Coordinated international project teams, integrating technical readiness, milestones, risks and business cases for leadership reviews.
- Designed and tested AI-enabled workflows to retrieve technical knowledge, identify evidence gaps and support project reviews.
- Took over an existing industrial development project, restructuring its schedule, risks, dependencies, responsibilities and stakeholder reporting.
- Coordinated manufacturing, R&D, procurement and suppliers through industrial trials and customer validation, supporting product modifications and further industrial testing.
- Developed Power BI dashboards adopted by the product-development team to support opportunity assessment and project prioritization.

TNS Nanotechnology | 2022 — 2023 Brazil

Technical Sales Specialist — Polymers

- Managed technical-commercial B2B accounts and translated customer requirements into industrial application-development opportunities.
- Managed a CRM-based commercial pipeline, developing business cases, sales forecasts, delivery schedules, pricing analyses and customer proposals.
- Assessed the financial feasibility of new applications and business opportunities using return and cost-of-capital indicators.

Mondiana | 2021 — 2022 Brazil

Product Development Coordinator

- Led a product-development team and introduced a KPI-based R&D management model with senior leadership.
- Defined project scope, objectives and detailed plans; monitored progress and managed changes to schedules, scope and costs.
- Introduced financial-feasibility assessments for new-product initiatives and coordinated customer trials and supplier evaluations.

Professional experience (continued)

Amcor Latin America | 2018 — 2021 Brazil

Product Development Engineer

- Managed end-to-end industrial product-development projects using MS Project, from feasibility through scale-up, customer approval and production transfer.
- Tracked project investments and revenue indicators, evaluated technical and financial feasibility, and coordinated task and team progress.
- Created, verified and controlled technical documentation, internal standards and test methods for industrial development projects.
- Coordinated industrial trials, pilot-lot monitoring, scale-up validation, technical reporting and production transfer across manufacturing sites.
- Acted as a technical interface for multinational customers and suppliers, collaborating with U.S.-based product-development teams.
- Supported multiple commercial packaging launches and redesigns, including lightweighting initiatives.

T-cota Engenharia e Minerais Industriais | 2014 — 2018 Brazil

Product Development Engineer

- Managed publicly funded applied R&D workstreams, coordinating work packages, laboratory and pilot-scale development, technical reports and project reviews.
- Contributed to successful public R&D funding proposals and collaborated with research and industrial partners.
- Held technical responsibility for semi-industrial operations, quality control and test-method development.
- Operated and maintained industrial process equipment, including filtration, centrifugation, milling and thermal-processing systems.
- Performed material testing and produced technical 3D designs using CAD tools.

Earlier technical experience

Fraunhofer IFAM (2012–2013): CFRP, surface engineering, adhesive bonding and applied research in Germany. Earlier experience at Whirlpool, UFSC, Nitrion and Nano Endoluminal.

Education

MBA · Leadership, Team Management and Productivity · PUCRS · 2025 — 2026

Postgraduate coursework · Project Management (degree not awarded) · USP / ESALQ · 2019 — 2021

MSc · Materials Science and Engineering · Federal University of Santa Catarina (UFSC) · 2016 — 2018

BEng · Materials Engineering · Federal University of Santa Catarina (UFSC) · 2008 — 2013

Languages

Portuguese native; English advanced professional; German and Japanese basic.