

MAURO BUENO

Senior Industrial Automation Specialist | Polymer Processing & Plastic Packaging Automation Expert

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PROFESSIONAL SUMMARY

42 years of experience in polymer processing and plastic packaging. Recognized specialist across Latin America, helping manufacturers maximize efficiency, reduce costs, and improve operational reliability through expert consulting in processes, maintenance, and automation.

- Sidel Blow Molders — start-up, advanced troubleshooting, PET and rPET blow molding optimization, Combi line integration
- Husky Injection Molding Systems — PET preform injection systems, predictive maintenance, cycle time reduction, part variability control
- Kuhne Extruders — high-performance flat film, blown film, and sheet extrusion lines (premium German technology)
- Rully and Wellix Extruders — high-productivity Brazilian equipment for film and co-extrusion, energy savings, and recycled resin processing
- Advanced Thermoforming — ILLIG and Kiefel (20+ years of national and international work)
- Bottle, jar, and cup printing — Polytype and Vandam
- Greenfield factory implementation and start-up — Brazil and Latin America
- Technical selection, team training, and knowledge multipliers — Portuguese, English, and Spanish
- Production planning & control (PPCP), MRP/ERP, cost analysis, and scrap/waste reduction programs
- Custom digital tools — Python for data analysis, automation scripts, and API integration; React, Next.js, and Vite for real-time monitoring dashboards (digital HMIs); HTML/CSS/JS/PHP for hybrid solutions
- Full Stack Web Developer & Mobile App Developer — custom apps and interfaces; REST API consumption and integration
- Pinokio — platform user for installing, running, and exploring AI applications and local tools
- On-site and remote work — Brazil and abroad

Industrial systems expertise: IT/OT integration architectures, modern industrial data architectures, and protocols including OPC, OPC UA, Modbus, Profinet, EtherNet/IP, and MQTT.

Platforms: SCADA, MES, PIMS, LIMS, historians, PPCM, specialized systems, and supervision/control platforms. Siemens, Delta and Omron PLCs & HMIs.

Infrastructure: virtualization, OT networks, edge computing, industrial cloud, high availability, and operational continuity.

Standards & frameworks: ISA/IEC 62443, Purdue Model, ISA-95, RAMI 4.0, and industrial cybersecurity best practices.

Consultative approach, technical leadership, executive communication, and stakeholder management (technical and business).

CORE TECHNICAL COMPETENCIES

- Polymer Extrusion & Thermoforming (PP & PET)
- Recycled Polymer Processing & Sustainable Packaging
- ILLIG, Kiefel & Gabler Thermoforming/Extrusion Machinery
- Siemens Industrial Automation: TIA Portal, WinCC, HMI, SINAMICS & Inverters
- Delta and Omron PLCs & HMIs — programming, configuration, diagnostics and integration
- PPCM — Maintenance Planning & Control
- Electrical Diagnostics, Process Troubleshooting & Equipment Optimization
- Python — Data Analysis, Automation Scripts, Internal Tools & API Integration
- REST APIs — Consumption, Integration & Workflow Automation Across Systems and Web Services
- HTML, CSS, PHP, JavaScript & TypeScript — Corporate Web Platforms & Full-Stack Development
- React, Next.js & Vite — Real-Time Dashboards & Digital HMIs
- GitLab CI/CD + AWS Deployments & SEO (jornadascania.com.br)
- Pinokio — Platform User for AI Apps and Local Tools (Install & Run)
- IoT Systems, Laser Cutting, PCB Prototyping

SKILLS

Industry & Process: Polymers · Plastics Engineering · Thermoforming · Injection & Blow Molding · Flowpack · Lean Manufacturing

Quality & Operations: Six Sigma · Kaizen · 5S · Continuous Improvement · ISO 9000 · ISO Standards

Tools & Technology: Python · APIs · Pinokio · Industrial Automation · ERP (SAP) · SaaS · Innovation Development · Microsoft Office · Operating Systems

PROFESSIONAL EXPERIENCE

Maintenance & Manufacturing Process Consultant | Nov 2024 – Apr 2026

Nutriplan – Nutriplast Indústria e Comércio Ltda · 1 yr 6 mos · Cascavel, Paraná, Brazil (On-site)

Consulting on maintenance and plastic parts production techniques.

Maintenance Supervisor | Jul 2023 – Nov 2024

Consulting on maintenance and plastic parts production techniques · Cascavel, Paraná

Web Platform Developer & Technical Coordinator | Present

Scania Brasil — Jornada Scania (jornadascania.com.br), Scania Brazil news hub · Brazil

- Development and management of the Jornada Scania corporate platform and digital tools, including SEO, content strategy, and technical deployments (GitLab + AWS)
- Creation of data-driven internal tools using Python, TypeScript, HTML, CSS, and PHP, including API integration for business processes

IT & Software Technical Lead · Full Stack · Mobile (in progress) · Plastic Packaging Production Consultant |

Jan 2016 – Present

Mauro Bueno & 528 Comunicação com Propósito · ongoing · Cascavel, Paraná, Brazil

- IT and software technical lead at 528 — Comunicação com Propósito: managing hosting, VPS server, and applications for the company's businesses and its clients
- Highlight: Jornada Scania (jornadascania.com.br) — Scania Brazil news hub
- Full-stack and mobile app development; plastic packaging production consulting

Technology Innovation Consultant — Plastic Processing | Jan 2019 – Dec 2022

Mauro Bueno

Focused on effective solutions to common plastic processing issues: lids not sealing, shelf-life degradation at customer warehouses, packaging volume shrinkage, unexpected breakage of lids and containers, flash/burr defects, and color drift over time.

Independent Consultant | Jan 2019 – Dec 2022

Self-employed

Corporate Technology Innovation Manager | Sep 2009 – Jan 2019

Fibrasa S.A. · 9 yrs 5 mos

Led the Technology Department to develop both business units (ES and PE), from manufacturing technology through training and qualification of maintenance, production, and quality personnel. Proposed productivity improvements, loss reduction, and better equipment maintenance efficiency. Identified new market opportunities in plastics. Provided technological support across all company areas.

Technical Assistance Manager | Jul 2004 – Sep 2009

ILLIG Maschinenbau GmbH · 5 yrs 3 mos · Heilbronn Region, Germany

Managed Illig's Service Department for Latin America, supporting a fleet of 600 thermoforming machines for jars, cups, and lids, plus blister systems, sealers, and complete packaging line accessories.

Technical Consultant | Jan 1999 – Jun 2001

GRUPO SIMÕES (Coca-Cola North Region) · 2 yrs 6 mos · Manaus, Brazil

- Evaluated, monitored, and trained PET bottle blow molding units
- Technical responsibility for all PET operations across nine group facilities
- Technical and administrative support to plant managers on blow molding units
- Training and technical support for Quality Control departments on PET
- Led PET blow molding training for production teams (technicians and operators)

Technical Assistant | Jul 1993 – Oct 1998

Alcoa · 5 yrs 4 mos · Alphaville – Barueri, SP, Brazil

- Direct involvement in design, assembly, and start-up of the PET packaging plant in Alphaville
- Technical assistance for Sidel blow molders installed at customers nationwide
- Maintenance of Husky injection molders and Sidel blow molders; high-pressure compressors (Bellis & Morcom, ABC, Thomé Crepelle); low-pressure compressors (Ingersoll Rand, Sullair, Wayne, Schulz); resin dryers (Piovan, AEC Whitlock)
- Functional coordination of automation projects and program changes on Husky injection molders (including robot) and HC Molders
- Technical support for Maintenance and Technical Assistance departments
- Training on PET manufacturing processes (injection and blow molding), including maintenance, for internal technicians/operators and teams in Mexico, Colombia, Chile, Argentina, Peru, and China
- Technical and functional support for Mexico unit start-up
- Participation in the BUG 2000 project for Latin America

Applications Engineering & Sales Representative | Aug 1991 – Feb 1993

HICOM – Instrumentação Ltda. · 1 yr 7 mos · Santo Amaro, SP, Brazil

Commercial representation and technical support for electronic instrumentation in chemical process control applications.

Instrumentation Supervisor | Nov 1987 – Jun 1991

Hoechst do Brasil Química e Farmacêutica S/A. · 3 yrs 8 mos · Osasco, SP, Brazil

- Direct involvement in design, assembly, and start-up of polyester monofilament and ATG filament plants

- Supervised automation project for the polyester polycondensation plant
- Supervised the Automation Department

Instrumentation Technician | Feb 1981 – Oct 1987

Quimbrasil Química Industrial Brasileira S/A. · 6 yrs 9 mos · Utinga – Santo André, SP, Brazil

- Maintenance of instrumentation at the ULPA (ammonia gas scrubbing unit), sulfuric acid plant, fertilizer plant, and inorganic pigments plant
- Technical and functional coordination of the Instrumentation Department

EDUCATION

Supplementary Academic Training — Information Technology | Sep 2022 – Feb 2023

Federal Institute of Education, Science and Technology of Espírito Santo (IFES) · REPROGRAME-SE — Basic Web Application Programming (Front-End)

- HTML & CSS Fundamentals (40 hours)
- Web Development with HTML, CSS, and JavaScript (30 hours)
- Introduction to the Bootstrap Framework (40 hours)
- Structured Programming with JavaScript (50 hours)

Certificate validation: sigaa.ifes.edu.br (authenticity)

Postgraduate Studies — Information Technology in Business Management | 2009 – 2010

Universidade Paulista (UNIP) · incomplete

Bachelor of Business Administration | 1995 – 1998

Universidade Paulista (UNIP)

Electrical Engineering — Electronics | 1988 – 1990

Universidade São Judas Tadeu · incomplete

Electromechanical Technician | Jan 1980 – Dec 1983

ETEC — Escola Técnica Estadual Júlio de Mesquita

LICENSES & CERTIFICATIONS

Starter Track Certificate — IoT Network Systems Development | Dec 2022

FIT — Instituto de Tecnologia · Credential ID: ba53f7a5eed542889db84c141dffd8f

Bachelor of Business Administration |

Universidade Paulista (UNIP)

LANGUAGES

- Portuguese: Native / Fluent
- English: Native / Fluent
- Spanish: Advanced
- German: Basic to Intermediate