

Jose Pablo Zamora

AI Automation Developer | Independent Researcher | Local AI Orchestration

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PROFESSIONAL PROFILE

Independent researcher and AI automation developer focused on local AI orchestration, human-in-the-loop automation systems, experimental NCT research and reproducible computational tools. Creator of Blue Arrow, a local modular orchestration framework for controlled automation, safety guards, human approval and event-driven execution.

Background combines 15+ years of industrial operations, strategic purchasing, maintenance planning, KPI reporting and team leadership with self-directed software development in Python, FastAPI, local AI tooling, Telegram bots and experimental mathematical frameworks.

SELECTED PROJECTS

Blue Arrow - Local human-in-the-loop AI orchestration framework

- Modular local automation framework with Telegram interaction, safety validation, approval flow and event-driven execution.

NCT Depth Motif - Experimental RGB-D scene validation and motif survival analysis

- Reproducible computational experiment exploring NCT-inspired depth motif analysis, grouped validation, falsifiability and CUDA-accelerated testing.

Observatorio Vivo - Local trend intelligence and emerging phenomena detection system

- Local system for capturing public signals, detecting emerging trends and generating confidence-based alerts using FastAPI, SQLite and structured observation flows.

SAT Engine v7 - Experimental C++ and Python computational engine

- Hybrid experimental solver architecture for structured problem exploration, phase-transition analysis and computational research workflows.

CORE SKILLS

Technical: Python, FastAPI, SQLite, Git, GitHub, Linux, Telegram bots, automation, local AI tooling, dashboards, documentation.

AI / Research: local AI orchestration, human-in-the-loop systems, experimental NCT research, computational experiments, reproducible research, mathematical framework design, quantum-inspired simulation, falsifiability.

Business / Operations: strategic purchasing, supplier negotiation, KPI reporting, Oracle data analysis, maintenance planning, team leadership, industrial operations, process improvement, customer service.

PROFESSIONAL EXPERIENCE

Hanzzel Corp - Founder, Independent Researcher & AI Automation Developer

Buenos Aires, Argentina | Jul 2024 - Present

- Founded Hanzzel Corp as an independent R&D initiative focused on local AI orchestration, automation systems, experimental NCT research and reproducible computational tools.
- Created Blue Arrow, a local human-in-the-loop orchestration framework for controlled automation, safety validation, Telegram-based interaction and modular execution.
- Designed and tested the NCT Framework as an experimental mathematical/computational approach for discrete motif representation, information structure and reproducible analysis.
- Developed 970+ experimental scripts across AI-assisted tooling, symbolic computation, NCT research, SU(2)/SU(3)-inspired simulations, BSD Engine v4.1, Navier-Stokes V1-V11 explorations, informational oracles and hybrid kernels.
- Built public professional infrastructure through GitHub, ORCID and a unified portfolio for research/software traceability.

CPC S.A. - Administrative Support

Buenos Aires, Argentina | Jan 2025 - Apr 2026

- Supported administrative operations, documentation, resource tracking and daily workflow coordination.
- Assisted with operational follow-up, internal communication and task organization.
- Helped organize information related to materials, supplies, work progress and field requirements.

CPC S.A. - Site Foreman

Buenos Aires, Argentina | Oct 2022 - May 2024

- Coordinated teams for sidewalk repair operations.
- Managed materials, supplies and daily field execution.
- Served as communication bridge between workers, supervisors and operational requirements.
- Supported resource control, field organization and work progress follow-up.

Cristobal Colon S.R.L. - Sales Representative

Buenos Aires, Argentina | Nov 2021 - Apr 2022

- Sold multi-brand clothing in retail stores including Alto Avellaneda, Rodriguez Pena and Abasto.
- Provided customer service, product advice and store support.

Independent Work - PC Technical Support, Programming, Delivery & Ride-Hailing

Buenos Aires, Argentina | Mar 2019 - May 2021

- Provided PC technical support, basic programming services and client assistance.
- Worked as an Uber driver from 2019 to 2020, strengthening customer service, autonomy, route planning and interpersonal skills.
- Supported a family microbusiness through delivery and operational tasks from 2020 onward.

Danone - Industrial Operations, Maintenance Planning & Strategic Purchasing

Longchamps, Buenos Aires | Mar 2005 - Aug 2019

- Strategic Buyer / Category Purchasing: managed supplier negotiations, purchase orders, urgent expenses and category-based purchasing strategies.
- Worked with engineering and internal clients on machinery, racks, notebooks, server spare parts, preventive maintenance parts and chemicals.
- Built KPI reports and management presentations using Excel, Oracle databases, PowerPoint and Prezi.
- Maintenance Planning Assistant: built preventive maintenance control spreadsheets and consolidated stock, maintenance and cost data into unified planning tools.
- Packaging Machine Operator / Line Leader: operated and led food packaging lines, coordinated teams, handled reporting and supported continuous improvement.

Kimberly-Clark - Paper Converting Line Operator

Quilmes, Buenos Aires | Feb 2005 - Oct 2005

- Worked on kitchen roll and toilet paper production lines, including palletizing tasks, forklift-related support and continuous improvement activities.

RESEARCH IDENTITY & LINKS

Portfolio: <https://hazzel-corp.github.io/> | GitHub: <https://github.com/Hazzel-corp> | ORCID: <https://orcid.org/0009-0005-3584-1779>

Selected works registered in ORCID: Blue Arrow, NCT Depth Motif, Observatorio Vivo, SAT Engine v7.