

ARTURO MARTÍNEZ

Agentic Engineer | Business Intelligence & Data Engineering | Project & Systems Integration

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PROFESSIONAL SUMMARY

Forward-thinking Agentic Engineer and Project Manager specialized in AI-driven automation, business intelligence (BI), and enterprise systems integration. Proven track record leading multidisciplinary development teams to design and deploy scalable automation frameworks, AI-enabled workflows, and robust data pipelines that optimize revenue and drive operational scalability. Expert at translating complex executive and business requirements into clear, modern technical architectures with a focus on removing manual overhead and accelerating strategic insight generation.

CORE COMPETENCIES & TECHNICAL SKILLS

- AI & Generative AI Implementation (Software Agents, Codex SDK, OpenAI, Anthropic)
- Automation Strategy & Workflow Orchestration (Cursor, Model Context Protocol - MCP)
- Data Engineering, Database Architecture & Pipeline Management
- Business Intelligence (BI) & Executive Dashboard Design
- API Integrations & Enterprise Systems Interoperability
- Full-Stack Web Development (Vue.js, React.js, Node.js, HTML5, WordPress)
- Cross-Functional Team Leadership & Mentor Management
- Requirements Architecture & End-to-End Agile Project Management

PROFESSIONAL EXPERIENCE

Project Manager – AI, Automation & Business Intelligence – T-ROC - The Revenue Optimization Companies

March 2018 – Present | Argentina

Lead AI-driven automation, business intelligence, and systems integration initiatives focused on revenue optimization and operational scalability. Manage a multidisciplinary development team responsible for designing and delivering enterprise-grade analytics platforms, automation frameworks, and data integration solutions supporting executive decision-making and field operations.

- Define and execute AI and automation strategy across internal revenue and operations systems.
- Lead the development of Business Intelligence solutions, executive dashboards, and performance analytics frameworks.
- Architect and oversee data engineering pipelines, database optimization, and reporting infrastructure.
- Drive API integrations and cross-platform interoperability across SaaS and enterprise applications.
- Translate business requirements into scalable technical solutions, system architecture, and clear functional definitions.

- Improve operational efficiency by reducing manual processes through targeted automation and AI-enabled workflows.
- Oversee the full project lifecycle: discovery, requirements architecture, solution design, development, QA, deployment, and stakeholder alignment.
- Align multi-million dollar technology initiatives with executive-level revenue and operational objectives.
- Mentor, scale, and guide high-performance technical engineering teams.

Software Development Project Manager – Mobile Insight (A T-ROC Global Company)

December 2021 – December 2023 | Argentina

- Directed end-to-end software development lifecycles using Agile methodologies, setting project milestones, assigning deliverables, and ensuring accountability across engineering teams.

Lead Senior Front-end Developer (Contractor) – Mobile Insight (A T-ROC Global Company)

November 2018 – March 2022 | Argentina

- Led front-end technical decisions and architecture, developing responsive, mobile-friendly interfaces with Vue.js, TypeScript, Javascript; Optimizing user experience (UX) and system performance.

Front-end Developer (Contractor) – Mobile Insight (A T-ROC Global Company)

March 2018 – November 2018 | Argentina

- Developed and deployed cross-browser compatible UI components and custom web applications aligned with project requirements.

Project Manager & Front-end Web Developer (Contractor) – Bizwi. The Smart Shopping Company

February 2016 – June 2017 | Venezuela

- Defined core project milestones and tracks utilizing Agile frameworks to streamline task allocation and development velocity.
- Overlooked developer sprints, resolved technical roadblocks, and made architectural decisions throughout the product development lifecycle.
- Architected mobile-first, fluid interfaces with an emphasis on seamless user experience (UX).

Information & Communication Technologies Consultant – Independent Consultant

June 2012 – August 2023 | Venezuela

Provided technical advisory services for diverse companies across commerce, education, and industry sectors. Evaluated market trends to design and implement strategic technological improvements for process and organizational optimization.

Administrator & Founding Member – Team Hardware Venezuela

July 2009 – November 2018 | Venezuela

Co-founded and managed operations for the platform. Spearheaded web development and ongoing maintenance, formulated marketing and info-diffusion strategies, managed hardware assets/resources, and directed a small operations team to ensure organizational goals were met.

Front-end Web Developer – Independent Freelancer

January 2008 – November 2018 | Venezuela

Delivered high-quality custom web applications and responsive UI interfaces utilizing HTML5, modern CSS, and JavaScript. Specialized in custom WordPress themes, content management configurations, and client-centric solutions.

PROFESSIONAL CERTIFICATIONS

- Model Context Protocol (MCP) Deep Dive: 2-Hour Interactive Workshop
- Ship a Production Voice Agent: A Hands-on Workshop
- Building AI Co-Workers with Codex SDK
- AI-Powered Code Review
- Building Fullstack Apps with Cursor
- The Complete Creative Coding UI/UX Online Course
- Secure AI-Driven Coding
- Advanced Cursor Techniques for Building Fullstack Apps
- Advanced Claude Code — Production Workflows, Subagents, and Autonomous Execution

EDUCATION

Coursework in Electronics Engineering, Specialization in Computation

Universidad Nacional Experimental Politécnica 'Antonio José de Sucre' (2004 – 2017)

LANGUAGES

English – Native or Bilingual Proficiency

Spanish – Native or Bilingual Proficiency