Andrés Ruiz Montañez

CURRICULUM VITAE

M.Sc. in Project Management and Data Science - ES/EN/FR/DE
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EXECUTIVE SUMMARY & CORE COMPETENCIES

Technology and product leader with 15 years of experience building and scaling AI and data-driven companies across Europe and Latin America. Track record in digital transformation, technology modernization, and AI adoption, delivering measurable business results. Combines strategic vision with deep technical expertise to align product, technology, and commercial goals for sustainable growth. Hands-on builder capable of designing and delivering end-to-end products from concept to deployment. Experienced entrepreneur and full-stack developer with a record of founding, advising, and leading multiple startups from concept to scale.

Core competencies: Technology Strategy & Leadership · Software Architecture & Scalable Systems · Product & Project Management · Applied AI & Advanced Data Analytics · Forward Deployed Engineering · Entrepreneurship & Business Growth

PROFESSIONAL EXPERIENCE

Founder & Forward Deployed Engineer at ARM Consulting Apr 2026 – Present, Berlin DE

Independent practice for applied AI, data and software engineering. Embedded with the client to create value.

- Building the agentic operating system for institutional investors (highly regulated industry). Workflow builder on own models and self-hosted LLMs on dedicated GPUs. It standardizes fund documents into 200+ comparable fields, each traced to its source page, and validated with a propietary neurosymbolic AI rule-engine.
- Built a RAG- and agent-based knowledge system for a Berlin VC, run by chat on Slack, Telegram and WhatsApp: it manages the venture idea pipeline, evaluates ideas against the firm's proprietary framework, screens job candidates and produces marketing content
- Built a language-learning platform on agentic flows: multi-agent pipelines generate plays and situations from each learner's own vocabulary, personalized over a lexical database of 3M+ lexemes.

Liquidator at Countercheck GmbH i.L. May 2026 – Present, Berlin DE

Led the liquidation as a going-concern sale: sold Vision Suite to BEUMER Group, ran buyer outreach, data room, due diligence and negotiations, and kept software, IP and data live and saleable.

Chief Technology and Product Officer at Countercheck GmbH May 2024 – Apr 2026, Berlin DE

Countercheck (Series A) develops technology to detect, trace, and eliminate illicit goods across global supply chains. Majority owned by Beam, the investment arm of BEUMER Group. Member of the management team, reporting to the board.

- Led technology and product with a team of 15–20 people
- Managed hybrid (cloud/on-site) highly secured systems processing 3B+ parcel images in real-time, at 10 sites in 7 countries
- Turned the core computer-vision technology into an AI product for high-speed parcel sortation, opening a new revenue stream
- Expanded TAM by packaging core tech for deployment at Customs organizations
- Built certification, security governance, and due diligence processes and documentation (GDPR, ISO 27001, SOC 2)

Investor at ALPHA Augmented Services AG Aug 2022 – Present, Zug CH

Chief Technology Officer at ALPHA Augmented Services GmbH / AG / Inc. Aug 2022 – May 2024, Berlin DE

Alpha Augmented Services, privately funded, develops AI-driven logistics and sustainability optimization software.

- Scaled remote-first tech team 3X in under a year with strong Agile delivery across Latam, EU, and MENA
- Transformed isolated prototypes into a cohesive, revenue-generating SaaS product suite and APIs
- Led in-house development of proprietary optimization algorithms and 3D render engine driving profitability
- Established a cloud-native infrastructure and fully automated CI/CD, and QA pipelines for rapid deployment

Entrepreneur in Residence at Beam GmbH Aug 2021 – Jul 2022, Berlin DE

VC and company builder backed by the BEUMER Group, focused on developing logistic-technology startups.

- Designed AI-driven predictive analytics models optimizing parcel flow, sustainability, and capacity utilization
- Designed platform to improve margins and sustainability via data-based micro-fulfillment strategies
- Designed AI-driven decision-making and risk management for supply chain law adherence (Lieferkettengesetz)
- Built AI automations for the company's daily work, incl. automatic validation of new venture ideas

Chief Technology Officer at AEQUALES SAS / SAC / SA de CV Aug 2018 – Jul 2021, Berlin DE

Aequales operates in Colombia, Mexico, and Peru helping organizations close their gender gaps with technology and data.

- Re-architected and modernized systems to service-oriented, decoupled architecture for scalability and reliability
- Designed and deployed the company data warehouse and data pipelines; AI maturity raised 2x
- Implemented Scrum, OKR, and performance metrics organization-wide, including own remote team (5+ countries)
- Supported executive leadership in crisis management during COVID-19 ensuring business continuity

Technical Co-Founder & Advisor at Several Ventures Jan 2017 – Jul 2021, Bogotá COL

Provided technical architecture, product strategy, and software development to startups in exchange for equity.
Seed-funded: Hero Kitchens · Bootstrapped: Local Hero, Catacoa, Paqua

Technology Consultant & Lead Developer at AEQUALES SAS / SAC / SA de CV Jan 2016 – Jul 2018, Bogotá COL

- Built initial data systems and architecture powering the PAR gender equity ranking platform (900+ companies per year)
- Established groundwork for company's long-term technology strategy

Founder and CEO at Axioma Estudio SAS Sep 2012 – Jul 2021, Bogotá COL

Axioma is a technology and data consultancy embedded with clients: digital transformation, AI, custom software.

- Founded and scaled the company from inception to 120+ completed projects, personally leading development
- Architected and built a proprietary CMS framework, reducing the avg. development time by 70%
- Architected and built tenant-aware SaaS platform, Datawarehouse & ETL, and an in-house E-commerce engine

EDUCATION

M.Sc. in Project Management & Data Science (grade 1.03) at HTW Berlin Oct 2018 – May 2021, Berlin DE

Thesis: Implementation of Machine Learning Projects in the Business Environment.
An Empirical Case Study About Organizational Readiness.

B.Sc. in Architecture at Universidad de Los Andes Aug 2005 – Mar 2012, Bogotá COL

Bachillerato at Colegio Helvetia (Swiss School) 1993 – Jul 2005, Bogotá COL

LANGUAGES

Spanish: Native · **English:** Full Professional (TOEFL) · **French:** Full Professional (DALF) · **German:** Intermediate (B2+)

VOLUNTEER & OTHER EXPERIENCE

Speaker at AI Agents Berlin ClawCamp Nov 2026, Berlin DE

Talk: Agency in the Age of Agents

Core Mentor for the Emerging Tech Program at Rockstart Oct 2020 – Oct 2022, Berlin DE (remote)

Mentor for Rockstart-accelerated, early-stage startups across ML/AI, IoT, and edge.

Project: Forecasting River Flow in Kazakhstan Jan 2020, Berlin DE

Worked with Dr. Anastasia Lobanova, researcher at Potsdam Institute for Climate Impact Research.

Speaker at PyData Berlin Jun 2019, Berlin DE

Talk: Introduction to Time Series Analysis & Forecasting.

Graduate Research Assistant at Hochschule für Technik und Wirtschaft Berlin Apr 2019 – Jul 2020, Berlin DE

Design and development of an ETL pipeline and Dashboard for processing and analyzing candidate applications data.

AutoCAD Teacher at Fundación Escuela Taller de Bogotá May 2014 – Aug 2014, Bogotá COL

Technical training targeting young adults in vulnerable situations, teaching via a "learn by doing" model.

Assistant Teacher at Universidad de Los Andes 2010 – 2012, Bogotá COL

Building Information Modeling (BIM), Computer Assisted Design (CAD) and 3D Modeling & Rendering.

PERSONAL INTERESTS

Self-taught and continuously learning, with a strong belief in open knowledge and the internet as an engine for progress. Passionate about the transformative power of technology and its socio-economic impact; especially automation, AI, VR/AR, and Big Data. Certified Rescue Scuba Diver (PADI), avid traveler, creative cook, and committed mentor.

TECHNICAL BACKGROUND AND HANDS-ON EXPERIENCE

Systems Architecture: 15 years in a forward deployed engineering role, linking customer and build. Service-oriented and event-driven architectures for high-throughput, real-time processing.

Product Delivery & Engineering Leadership: Track record building high-performance teams, enabling rapid prototyping, and driving value-first development across organizational stages. Extensive experience with Agile development and organizational maturity.

Software Engineering and SaaS: Delivered multi-tenant SaaS systems, E-commerce platforms, and custom applications for several industries and across multiple tech stacks. Directly involved in development in 100+ successful projects and strong in API design, backend architecture, and full-stack development. *(PHP/Laravel, Django/React, Ionic)*

LLMs, NLP & Automation: Integrated LLMs into applications and workflows, including agent-based systems, RAG pipelines with page- and paragraph-level provenance, evaluation harnesses, MCP-compatible tooling, and quantized deployments. *(LangChain, OpenAI, Anthropic, Gemini, Ollama, n8n, Docling, PostgreSQL/pgvector, Claude Code)*

Computer Vision & Deep Learning: Delivered large-scale imaging pipelines processing billions of images with strict security, latency, and reliability constraints. Extensive experience with segmentation, classification, and detection models. Strong grounding in CV architectures and optimization for production. Familiar with regulated environments and safety-critical workflows. *(PyTorch/TensorFlow, OpenCV, YOLO, EasyOCR, CoatNet, Docker)*

Machine Learning & Applied Research: Built production ML models and custom algorithms for forecasting, optimization, and analytics. Strong in data mining, feature engineering, and time series. Experience transforming prototypes into reliable, commercial-ready ML products. End-to-end MLOps experience from model development to inference APIs. *(NumPy, pandas, scikit-learn, statsmodels, Matplotlib, FastAPI)*

3D, Simulation & Interactive Systems: Developed 3D rendering engine and physics-driven components for shipments optimization and visualization. Built interactive tooling using Unity and Three.js. *(C#, .NET/Blazor, TypeScript/JavaScript, WebAssembly)*

Data Engineering & Infrastructure: Architected ETL pipelines, event-driven data flows, and large-scale analytic environments. Experience with DWH, dashboarding, and search/log pipelines. *(Airflow, BigQuery, Tableau/Power BI/Looker, SQL, NoSQL, ELK)*

Security, Governance & Compliance: Experience preparing investor data rooms, leading due diligence, and aligning with GDPR, ISO 27001, and SOC 2 requirements. Implemented structured risk-management practices.

Cloud & DevOps: Hands-on across all major clouds: AWS, GCP, and Azure. Designed cloud-native infrastructures with fully automated CI/CD pipelines.