

ANDRÉS CORREDOR

MECHATRONICS ENGINEER | PRODUCT INNOVATION

📍 Colombia (UTC-5) · Remote, hybrid or on-site · Open to relocation ✉ andrescorredor345@gmail.com 🌐 LinkedIn
📁 andrescorredor.com

PROFESSIONAL PROFILE

Mechatronics Engineer (valedictorian) who designs, builds and tests products for places with little connectivity and small budgets. I took **SIDER**, an offline learning platform, from concept to a pilot in 6 schools in Cusco (300+ students). I run two small ventures: **Tech Solutions**, which builds WhatsApp chatbots and websites for small businesses, and **Tech Kits**, which is validating electronics kits for children.

CORE COMPETENCIES

Product development (0 to 1) Offline-first PWA design Prototyping and market validation

PROFESSIONAL EXPERIENCE

Founder & Hardware Product Engineer | Tech Kits Paipa, Colombia | Oct 2026 – Present

- **Designing** a subscription series of electronics kits for ages 10 to 12 (4 missions), from mission brief to PCB, CNC G-code and assembly guide, with a verification gate at each stage.
- **Set up** an in-house CNC workshop for MDF parts and PCB milling; 2 of 4 missions verified on the bench.
- **Running** a 21-day local market validation (started 15 Oct 2026) with a go/no-go threshold of 12 paid orders.

Founder & Product Engineer | Tech Solutions Paipa, Colombia | Sep 2026 – Present

- **Founded** a studio building WhatsApp chatbots, NFC cards and websites for small businesses; deployed a booking chatbot beta for L'Boutique Estética (Cloudflare Workers, Neon Postgres).
- **Delivered** a pilot website for Embajadora de Boyacá (Astro, Cloudflare) with Playwright and axe tests and Lighthouse scores of 99 to 100.

Group Mentor & Project Implementor | FutureSense Foundation Cusco, Perú | Sep 2025 – Present

- **Led the design, build and pilot of SIDER**, a gamified STEM and English PWA for low-spec computers with zero internet dependency and a USB data-mule update system; pilot in 6 schools reaching 300+ students.
- **Designed** the M&E System v2.0 for the Peru and Panama hubs and automated lesson planning with a Python generator (27 session plans).

AI Data Quality & Linguistics Specialist | Outlier AI Remote (USA) | Jan 2024 – Jan 2025

- **Evaluated** 500+ prompts for LLM training (99.5% accuracy) and applied RLHF protocols (20% lower linguistic bias).

Corporate Language Consultant & Curriculum Developer Remote (NYC, USA) | Jan 2023 – Present

| Voxy, Inc.

- **Built** a diagnostic and personalized-curriculum system (JSON learner profile, AI-assisted tiered curricula) and learning pathways for 40+ executives, most from Fortune 500 companies.

SELECTED PROJECTS

- **Mobile Utility Hub (thesis)**: mobile unit for energy, water and food; reduced-scale prototype bench-tested; gasification dropped for v2 after a capacity calculation showed the gasifier would be oversized.
- **Robotic prosthetic hand (Lead Researcher, SIROM)**: EMG-controlled, 3D printed; design cost target of 200-800 USD vs 2,000-5,000 USD for commercial ones; designed, not built.

EDUCATION & CERTIFICATIONS

B.S. Mechatronics Engineering | Universidad de Boyacá 2020 – 2025

- *Valedictorian (Top 1% of class) · Highest GPA Award 2023 · Merit Scholarship*
- IBM Product Management Specialization (2025) · IELTS Academic C1 (2024) · PCB Design, Fundación Carlos Slim (2022)

TECHNICAL TOOLKIT

- **Design and electronics**: SolidWorks, CadQuery, KiCad, Proteus, Arduino, ESP32, CNC (GRBL)
- **Software**: Python, TypeScript, React, PostgreSQL, Cloudflare Workers, Astro, Playwright
- **Languages**: Spanish (native), English (C1, IELTS Academic 2024), Portuguese (A2), Chinese Mandarin (A1)