

ANDRÉS CORREDOR

MECHATRONICS ENGINEER | SOCIAL IMPACT INNOVATOR | AI & STEM EDUCATION SPECIALIST

📍 Colombia (Available for Relocation) 📩 andrescorredor345@gmail.com 🌐 LinkedIn 📁 Portfolio

PROFESSIONAL PROFILE

High-Performance Mechatronics Engineer with a distinguished track record in **technology-driven social impact** and **STEM education**. Specialist in bridging complex engineering concepts with human-centered design to deliver scalable solutions in diverse cultural contexts. Proven expertise in **AI data validation**, rapid prototyping, and curriculum development for international organizations. Seeking to leverage technical precision and social leadership to drive sustainable innovation in a top-tier global organization.

CORE COMPETENCIES

Social Engineering & Applied Tech	Human-Centered Design (HCD)	AI Data Analysis & Ethics
STEM Curriculum Development	Rapid Prototyping (CAD/CAM)	Cross-Cultural Leadership

PROFESSIONAL EXPERIENCE

Group Mentor & Project Implementor | FutureSense Foundation

Perú | Sep 2025 – Present

- Spearheaded sustainable development initiatives** by applying engineering principles to solve critical local challenges and improve community well-being.
- Mentored diverse international volunteer teams**, fostering cross-cultural leadership and adaptability in dynamic field environments.
- Bridged technical execution with cultural context** to ensuring project longevity and meaningful social impact.

AI Data Quality & Linguistics Specialist | Outlier AI

Remote (USA) | Current

- Engineered high-quality training data** for next-gen Large Language Models (LLMs), meticulously evaluating 500+ complex prompts for semantic accuracy, cultural relevance, and logic.
- Optimized AI model performance** in Spanish by identifying edge cases and implementing strict ethical guidelines, directly enhancing user trust and safety benchmarks.
- Collaborated with global engineering teams to refine reinforcement learning (RLHF) protocols, ensuring linguistic precision in technical and educational domains.

Corporate Language Consultant & Curriculum Dev. | Voxy, Inc.

Remote (NYC) | 2023 – Present

- Architected personalized learning pathways** for corporate executives from Fortune 500 companies, significantly increasing learner retention through context-driven instruction.
- Delivered high-impact virtual training for professionals in Tech, Finance, and Consulting, focusing on **cross-cultural business communication** and technical vocabulary.
- Leveraged data-driven insights to adapt curriculum in real-time within an **agile educational framework**.

Engineering Design Lead (Volunteer) | Engineers Without Borders UK

Remote / International

- **Co-led the design strategy** for the "Agro-Tech Park" initiative, integrating sustainable mobility and technical education for communities in Sub-Saharan Africa.
- Championed **Human-Centered Design principles** to prototype low-cost infrastructure solutions, ensuring alignment with **UN Sustainable Development Goals (SDGs)**.
- Facilitated cross-functional collaboration between engineering teams and local stakeholders to ensure project feasibility and cultural fit.

STEM Program Director & Educator | Freelance & Social Initiatives

Colombia

- Launched **STEM certification programs** for 60+ rural students, democratizing access to robotics and programming education.
- Designed and manufactured low-cost educational kits using 3D printing and recycled electronics, reducing material costs by 40% while maintaining technical rigor.
- Mentored youth in "Design Thinking" workshops, resulting in increased student engagement in scientific careers.

Group Manager | Cafam Oficial

Melgar, Colombia | 2018 – 2019

- Led and supervised diverse groups in a high-volume recreational center, ensuring strict adherence to safety protocols and participant well-being.
- Facilitated team-building and leadership workshops, adapting activities to different age groups to foster collaboration and social skills.
- Managed conflict resolution in dynamic environments, ensuring constructive outcomes and maintaining operational flow.

EDUCATION & HONOURS

B.S. Mechatronics Engineering | Universidad de Boyacá

2020 – 2025

- Valedictorian (Top 1% of Class) – Highest GPA Award (2023)
- Lead Researcher, SIROM Group | Merit Scholarship Recipient

Product Management Specialization | IBM

2025

Specialization in Teaching Spanish (ELE) | Univ. Europea Miguel de Cervantes

2023

TECHNICAL TOOLKIT

- **Design & Manufacturing:** SolidWorks, FlatCAM, CNC, 3D Printing
- **Electronics & IoT:** Arduino, PIC Microcontrollers, PCB Design
- **Software & Automation:** MATLAB, TIA Portal, Proteus, Python
- **Languages:** Spanish (Native), English (C1/Advanced), Portuguese (A2)