

MARIA MISHEL CUIZA FLORES

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Education

Universidad Privada Boliviana

B.Eng., Electronics and Telecommunications Engineering

Cochabamba, Bolivia

Feb 2022 – Mar 2026

Relevant coursework: Signal Processing, Applied Statistics & Probability, Numerical Methods, Calculus I–III, Physics I & II.

Recognitions: Excellence Scholarship (2022, 2024); Best IEEE Student Branch in Bolivia (2024, as Chair).

Memorial University of Newfoundland — Study Abroad

Emerging Leaders in the Americas Program (ELAP), Global Affairs Canada

St. John's, NL, Canada

Jan 2025 – Apr 2025

Experience

Nuevatel PCS de Bolivia S.A.

Intern, Network and Operations Department

Cochabamba, Bolivia

May 2025 – Jul 2026

- Processed and modeled large-scale time-series datasets in Python and MATLAB, applying statistical methods to extract quantitative insights and support technical decision-making.
- Built Python and C# prototypes to capture, structure, and visualize sensor and network data in real time, translating raw data into structured, decision-ready outputs.
- Automated data-acquisition workflows using Appium and Raspberry Pi as a centralized orchestration hub, improving consistency and reproducibility of testing pipelines.
- Drafted technical documentation and reports translating analysis for both technical and non-technical stakeholders.

Indatta

Automation & Operational Innovation Specialist

Santa Cruz de la Sierra, Bolivia

May 2026 – Present

- Administer the TR4 ERP system at company and client level, ensuring data integrity and consistent configuration across business processes.
- Partner with multiple department heads to identify inefficiencies and design automation initiatives, translating operational needs into practical technical solutions.
- Manage vendor improvement requests and SLA compliance, coordinating across technical and business teams under time-sensitive conditions.
- Generate technical usage reports focused on traceability and optimization, and document changes and configurations across systems.

Projects

Custom ERP System — Concept Store, Nicaragua

Sole Developer

- Designed and built an end-to-end ERP in PHP/MySQL covering inventory management, automated label printing, and report generation.
- Implemented automated email notifications, reducing manual administrative work and giving the client real-time visibility into stock and operations.

Mercadeo IA — AI-Powered ERP for Restaurants

Co-Founder

- Co-founding an early-stage startup (MVP in development, 2026) building an AI-enhanced ERP for restaurants, integrating inventory, recipe-to-stock costing, and product-level sales analytics.
- Lead product strategy and restaurant client discovery, coordinating with technical co-founders during MVP development.

Research & Publications

Author/co-author of 5 peer-reviewed IEEE and international conference papers applying statistical and time-series analysis to satellite/reanalysis data — full record on Google Scholar.

- Cuiza, M. and Siles, G. A. "Evaluation of total precipitation from ERA5-Land reanalysis for rain attenuation studies." 2024 IEEE LACAP.
- Benarroch, A., Siles, G. A., Cuiza, M., and Riera, J. M. "Comparison Between ERA5 Cloud Parameters and Rainfall Rate in Madrid." 2024 18th EuCAP.

Recognition: Student Travel Grant, IEEE LACAP (2024); Best Scientific Poster, BETCON (2024).

Leadership & Activities

Mesa Directiva, Electronics & Telecommunications Engineering — UPB Cochabamba, Bolivia
President 2023 – 2024

- Represented the full student body of the program before university authorities and faculty, channeling academic needs and concerns.
- Organized academic events, wellness initiatives, and community-building activities across the program, and coordinated with the directive board and cross-departmental university areas.

IEEE Student Branch — Universidad Privada Boliviana Cochabamba, Bolivia
Chair Mar 2024 – Mar 2025

- Led the branch to recognition as Best IEEE Student Branch in Bolivia (2024); directed "Tu Laptop, Su Futuro," a laptop donation campaign with Fundación Viva, and coordinated STEM workshops for children ages 5–12.

IEEE Women in Engineering (WIE) — Universidad Privada Boliviana Cochabamba, Bolivia
Organizer, "Dialoguing with Women Engineers" — International Women's Day Feb – Mar 2024

- Organized an IEEE WIE event for International Women's Day, coordinating women professionals in telecommunications to inspire female students to pursue careers in the field.
- Awarded the IEEE WIE International Scholarship (2024) in recognition of academic performance and engagement in the WIE community.

IEEE Communications Society (ComSoc) — Universidad Privada Boliviana Cochabamba, Bolivia
Webmaster Mar 2023 – Dec 2023

- Co-founded "Café de Circuitos," a monthly technical talk series in electronics and telecommunications, managing event promotion and communications.

IEEE Antennas and Propagation Society — Bolivia Chapter Cochabamba, Bolivia
Organizer, Inaugural AP-S Workshop (First in Bolivia) Aug – Sep 2025

- Built the event website, designed promotional assets, and coordinated the program for the first AP-S workshop held in Bolivia.

IEEE LACAP 2024 (Latin American Conference on Antennas and Propagation) International
International Volunteer Dec 2024

- Supported conference logistics, including participant registration and poster-session coordination, at an international IEEE conference.

Skills & Interests

Technical: Python (NumPy, SciPy, PyTorch), MATLAB, C#, Excel, Power BI, Git, SQL basics.

Language: Spanish (Native), English (Advanced/Fluent), Portuguese (Basic).

Interests: Quantitative research, applied machine learning, AI-driven automation, women in STEM advocacy, international collaboration.