Luis R. Aliendre-Santiváñez

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Education

02/2015–
12/2019
Electronic Engineer, *First of my class*, Technical University of Oruro, National Faculty of Engineering

Research interests

○ **Digital image processing**
○ **Medical image processing**
○ **Engineering education**

Honors & Awards

○ Graduated with Honors. Among the 5% of Electrical and Electronic Engineering Program's students graduated with Academic Excellence

Academic experiences

03/2023–
Nowadays
Foreigner Research Collaborator, Federal University of Ceará, Postgraduate Program in Teleinformatics Engineering, BioData Analytics Research Group

○ **Research Collaborator: Medical image processing**
Conduct research in medical image's segmentation using pediatric ultrasound images

03/2022 **Lecturer**, Technical University of Oruro, National Faculty of Engineering

○ **Workshop: LaTeX for engineering students**
Show LaTeX fundamentals to engineering students and its application as a research tool

11/2021 **Organizer**, Technical University of Oruro, National Faculty of Engineering

○ **Course: Initial MATLAB, R2021b**
Structuring the course's academic syllabus

07/2018–
12/2019
Teaching Assistant
Technical University of Oruro, National Faculty of Engineering

○ **Course: Telecommunications I**
Explain the functioning of telephone networks; show the fundamentals of traffic engineering; show how telephone and commutation centrals work; present an introduction to mobile telephony

02/2018–
06/2018
Teaching Assistant
Technical University of Oruro, National Faculty of Engineering

○ **Course: Computer Networks**
Explain the fundamentals of computer networks; show the OSI model and communication protocols; demonstrate network theory and design; introduce to network operating systems

02/2016–
12/2017
Teaching Assistant
Technical University of Oruro, National Faculty of Engineering

- **Course: Drafting - Oratory and Leadership**
  Explain scientific drafting concepts; demonstrate oratory techniques, oral and corporal expression; analyze a leader's features and the solving conflicts' method

Internships

09/2019– **Intern**, Electricity Distribution Company, ENDE DEORURO
11/2019 Area: Technical product quality

- Selected among outstanding students of the Electrical and Electronic Engineering Program to realize an internship at ENDE DEORURO.
  Tasks:
  – Calibration of the electrical network analyzers
  – Conduct a frequency domain harmonic analysis on low, medium, and/or high voltages
  – Create a database to monitor the in and out of electrical network analyzers

Programming skills

- **MATLAB**
- **Python**
- **LaTeX**
- **HTML**

Conference papers

- Luis R. Aliendre-Santiváñez, "Graduation terminal efficacy, Electrical and Electronic Engineering Program", _Electrical and Electronic Engineering Program Academic Journals_, Oruro, Bolivia, 12/2021

Publications

- Luis R. Aliendre-Santiváñez and Ramiro F. Aliendre-García, "Frequency Signal Convolution using MATLAB", in _Engineering Journal_, vol. 15, no. 1, 2022, ISSN 2412-236X

Volunteer activities

- Orientation Club, Postgraduate options for engineering students, National Faculty of Engineering, Founder, 2022
- IEEE Reading Club, Young Professionals Region 9, Organizer, 2022
- IEEE Reading Club, Young Professionals Region 9, Volunteer, 2021

Academic affiliations

- IEEE Member, #97978183
  – Communications Society (COMSOC)
  – Signal Processing Society (SPS)
  – Medicine and Biology Society (EMBS)