Luis R. Aliendre-Santiváñez

Petot St., #1815, Oruro, Bolivia
℡ *591-75400843*
✉ *luis.aliendre@fni.uto.edu.bo*
ⓘ *0000-0002-1721-1379*

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 segmentation using pediatric ultrasound videos

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–
11/2019

Intern, Electricity Distribution Company, ENDE DEORURO
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

03/2022–
07/2022

Organizer
IEEE Young Professionals Region 9, English Reading Club

- Re-organize the Reading Club, select the articles to discuss for the weekly meetings, supervise the meetings

10/2022–
12/2022

Volunteer
IEEE Young Professionals Region 9, English Reading Club

- Select the article to discuss for the weekly meetings

Academic affiliations

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