

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 segmentation using pediatric ultrasound videos

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

- **Workshop: L^AT_EX for engineering students**
Show L^AT_EX 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**
- **L^AT_EX**
- **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– **Organizer**

06/2022 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– **Volunteer**

12/2022 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)