

Lucas D Moreira Bogado

International Masters Student. J-1 Visa
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EDUCATION

Rice University, Houston, TX

May 2024

Master's Degree in Electrical and Computer Engineering

National University of Asuncion, Paraguay

Sep 2020

Bachelor's Degree in Mechatronics Engineering. GPA 3.75 (adapted for a 4.0 scale)

RELEVANT COURSEWORK:

Deep Learning*, Digital Image and Video Processing*

*Comp. by Dec. 2022

Computer Vision**, **Mobile and Embedded System Design and Application

**Comp. by May 2023

RELEVANT PROJECTS

- Image denoising using 2d Digital Filters
- Implementation of Perceptron Neural Networks for human writing recognition

EXPERIENCE

Supply Chain Stock Manager, ITAIPU BINACIONAL (Hydroelectric Power Plant)

Jan 2022 – Jul 2022

- Tasks using SAP ERP: Controlled Inventories of materials. Analyzed Material requirements plans (MRP). Performed purchase order requests by bidding processes.
- Participated of development of a new Cadastral System for new Materials.
- Developed tools to automate repeating task using Microsoft's Power Automate platform. Reduced some tasks of hours to minutes.

Software Resident Engineer, ITAIPU Technology Park Paraguay

Sep 2020 – Nov 2021

- Created Reactive Web prototypes with the OutSystems Low-Code platform.
- Developed components for a Diagnostic tool using Fault Tree Analysis. Concepts addressed: Fuzzy Logic, Expert Systems, relational databases, data-acquisition from embedded systems, Front-end and Back-end development. Socket communication.

Teaching Assistant, National University of Asuncion – School of Engineering

Feb 2015 – Nov 2021

- Taught in courses: Introduction to Linear Algebra, C/C++ Programming, Probability and Statistics. Signals and Systems. Automated Control Systems.

Undergraduate Research Assistant, Paraguay Space Agency

Dec 2018 - Sep 2020

- Developed and tested educational picosatellites "CanSats" as introduction tools of practical space engineering to high school students.

SKILLS

Soft Skills: Public speaking. Working effectively in a team. Leadership. **Languages:** Spanish (native). English and Portuguese. **Programming languages:** C/C++, JavaScript, Python, MATLAB. **Frameworks:** React **Computer Software:** Solidworks, Arduino IDE.

INVOLVEMENT

Fulbright Scholarship Grantee

2022 - 2023

Received a U.S. State Department grant for graduate studies.

IEEE Student Member

2014 - 2022

Volunteering work. Participated in talks, events related to technology and student engagement.

Member of the Board of Directors of the School of Engineering

2017 - 2018

Supervised activities of the institution. Analyzed and approved regulations. Designed strategies and academic projects. Engaged in decision-making debates.

Vice president of the IEEE Student Branch

2017

Director of human resources. Organized events. Managed team groups for activities.