

LUCAS MARIANO GRIGOLATO

TELECOMMUNICATIONS ENGINEER

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📍 Pellegrini 868 P5 D4 ♦ Rosario (2000), Santa Fe, Argentina

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EXPERIENCE

🔗 **Emtech S.A.** [1]

FPGA Design Engineer

Oct 2020 - Now

Rosario, Santa Fe, Argentina

Currently working on the design, verification and implementation of several FPGA cores and device firmwares for different projects related to satellite communications

- FPGA core design
- Firmware development
- Design and implementation of communications protocols
- Verification and validation of simulation models

🏢 **Centro de Innovación Tecnológica** [2]

Instructor

Mar 2016 - Jul 2017

Rosario, Santa Fe, Argentina

During the beginning of 2016 and mid-2017 I worked as an instructor of different IT-related courses at Fundación Libertad

- *Cloud Management with GSuite* (80 hours) - Empleartec Program
- *Cisco IT Essentials* (80 hours)
- *Microsoft Excel, Advanced Level* (12 hours) - 6 Editions

🇨🇱 **Consulado General de Chile en Rosario** [3]

IT Support Manager

Sep 2013 - Jul 2017

Rosario, Santa Fe, Argentina

- Help Desk Manager for 7 employees
- Computer Hardware Maintenance
- Contact between the government of Chile and the consulate for the implementation of new IT solutions
- Implementation, administration, and management of computer network infrastructures
- Advanced software and hardware troubleshooting
- Remote support

🌊 **Fundación Libertad** [4]

IT Support Manager

Aug 2012 - Jul 2017

Rosario, Santa Fe, Argentina

- Help Desk Manager for 30 employees
- Computer Hardware Maintenance
- Implementation, administration, and management of computer network infrastructures
- Advanced software and hardware troubleshooting
- GSuite Administrator
- Web hosting and domain manager
- Remote support
- Active Directory Administrator (Windows Server 2008)

EDUCATION

Instituto Balseiro (UNCuyo) [5]

Telecommunications Engineering

Jul 2017 - Dec 2020

San Carlos de Bariloche, Río Negro, Argentina

- 5.5 - years program
- Comisión Nacional de Energía Atómica scholarship for undergraduate students
- Final Project: *Digital beamformer for the reception of satellite signals* @ Telecommunications Engineering Department, Centro Atómico Bariloche



Facultad de Cs. Exactas, Ingeniería y Agrimensura (UNR)

Electronic Engineering

Feb 2009 - Jul 2017

Rosario, Santa Fe, Argentina

- 5 - years program, three years completed
- Obtained Bachelor degree

VOLUNTEER EXPERIENCE

Centro de Estudiantes del Instituto Balseiro [6]

IT Secretary

Apr 2019 - Dec 2020

San Carlos de Bariloche, Río Negro, Argentina

- Elected by vote in 2019 and 2020
- Help Desk for ≈ 200 students
- Administration, maintenance, and management of file servers and web servers
- Implementation and support of VPN solutions
- IT Purchasing Manager
- Contact between students and authorities of the Instituto Balseiro on issues related to IT

SKILLS

Programming

VHDL, SystemVerilog, MATLAB, Python, C, C++, L^AT_EX
Machine Learning

Tools

Xilinx Vivado, Libero SoC, Questa Sim, Xilinx Vitis, Visual Studio Code, GitHub, GNU Radio, VMware, Cisco Packet Tracer, VirtualBox, CST Studio, Advanced Design System

FPGA

Zynq-7000 SoC, Microsemi ProASIC3, Kintex UltraScale, Zynq UltraScale+ RFSoc

Networking

CCNA R&S (Level 2), pfSense, MikroTik, OpenVPN, WireGuard, Squid, Socket API

Telecommunications

Optical/RF/Wireless/Analog/Digital/Satellite Communications, Fundamentals of Optical Fibers, Digital/Statistical Signal Processing, Software Defined Radio, Beamforming

Operative Systems

Microsoft Windows, Linux, Cisco IOS, RouterOS

Languages

English (Advanced), Spanish (Native)

REFERENCES

[1] **Emtech S.A.**

- Ing. Guillermo Güichal, CEO, Emtech S.A.
(gguichal@emtech.com.ar)

[2] **Centro de Innovación Tecnológica**

- Ing. Sebastián Bosch, Director, Centro de Innovación Tecnológica, Fundación Libertad
(sbosch@edn.org.ar)

[3] **Consulado General de Chile en Rosario**

- Mrs. Arely Mella Contreras, Minister of Faith and Authorized Secretary, Consulado General de Chile en Rosario
(amellac@minrel.gob.cl)

[4] **Fundación Libertad**

- Mr. Gerardo Bongiovanni, President, Fundación Libertad (gbongiovanni@libertad.org.ar)
- Lic. Ana Figueroa Casas, Director, Escuela de Negocios, Fundación Libertad
(afcasas@edn.org.ar)

[5] **Instituto Balseiro**

- Dr. Diego Grosz, Head of Department, Telecommunications Engineering, Centro Atómico Bariloche (grosz@ib.edu.ar)
- Dr. Santiago Hernandez, Final Project Advisor, Telecommunications Engineering, Centro Atómico Bariloche (shernandez@ib.edu.ar)

[6] **Centro de Estudiantes del Instituto Balseiro**

- Executive Committee (cdceib@gmail.com)