

Felipe Nicolás Diniello

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Age: 35 y.o.

Last Relevant Jobs

Globant - Argentina

2017 - 2022 **Internet of Things Studio**, Capital Federal Buenos Aires

Position: IoT Edge Engineer (SME.)

Team size: 20 SW and FW engineers

Duties:

Provided technical support in pre-sales for cloud-based solutions involving hardware device interactions. Oversaw research and development projects for prototyping and proof-of-concept initiatives, showcasing the viability of new client-driven ideas and internal requirements. Developed and architected solutions for embedded software applications and firmware across diverse architectures and operating systems.

Keywords: Azure, C++, Jenkins, DSP, Docker, Yocto, MQTT

Nobleo Technology

Aug. 2022 - **Eindhoven - Netherlands**

Position: Software Engineer

Duties:

Serves as a developer for both external and internal client projects. Within internal assignments, actively contributed to the architectural development of an IoT platform with a specific focus on enabling real-time communications between edge devices.

Keywords: STM32 microcontrollers, Yocto, C/C++, GTest and CTest

Technical Skills

Programing Languages

- Proficient with **C/C++11**. OOP, Templates and Design Pattern implementation.
- Experience with **Rust** programming language.
- Experience with Crosscompilations and build systems such as **Make** and **GCC toolchain**
- UNIX shell and **BASH** tools for scripting (sed, awk, grep, etc).

Cybersecurity Tools and Cryptography

- Experience using **GPG** tools for encrypting and decrypting files, verifying digital signatures.
- Experience using **LUKS** tools for managing encrypted volumes
- Experience using **SSH** tunnels to securely tunnel traffic between remote and local ports.
- Skilled using **OpenSSL** for conducting certificate checks and troubleshooting certificate-related issues.

Cloud and IoT

Worked with and developed solutions using the following **Azure** modules:

- Device Provisioning Service
- IoT Hub
- IoT Edge

Operative Systems

- Long term experience using and setting **GNU/Linux** environments
- Package management, building and dependency control with **.deb/.rpm** tools
- Experience using **Buildroot** and **Yocto**
- Experience developing under **FreeRTOS**

DevOps Tools and Technologies

- Experience working and setting up CI/CD for custom targets with **Jenkins**
- Usage of **Docker** for setting up custom toolchains for cross-compilation

Qualifications

2019 **Electronic Engineer**, *Universidad Tecnológica Nacional - FRBA*, Buenos Aires

Languages

Spanish, *native*

English, *advanced*

French, *basic*

Prior Experience

CITEDEF, Defense Department

2016 - 2017 **Digital Technics Lab.**, *Applied Electronics Department*, Villa Martelli - Buenos Aires

Project: Argentinian Air Target - Ground Segment

Position: Paid Internship

Objectives: Develop a low cost resynchronization platform for telemetric payloads coming from an Unmanned Aerial Vehicle.

Keywords: FPGA, VHDL, DSP, HIL, Simulation.

Facultad Regional Buenos Aires - Tenaris

2014 - 2018 **Science, Technology and Production Secretary**, *UTN-FRBA*

Project: Field-Joint-Coating

Position: Paid Internship

Objectives: Develop an electronic system capable of heating large copper weaves with a temperature profile to weld plastic surfaces.

Keywords: PID Controller, Power Electronics, DSP, Electronic Front End.

CITEDEF, Defense Department

2011 - 2013 **Pyrotechnics Lab.**, *Applied Chemistry Department*

Project: TINoC (Tornillo Iniciador Normalizado Codificado)

[Translates to: Normalized Codified Fire-Started]

Position: Paid Internship

Objectives: Develop a safe communication protocol for a microcontroller to trigger the initialization sequence for solid-fuel rockets only after the correct code is entered.

Keywords: ARM, C, Crosscompilation, Linux

College Activity

Teaching

2017 - 2019 **Auxiliary**, *Control Systems*, Facultad Regional Buenos Aires - UTN

Head professor: Sp. Emilio Ciccolella

Subjects: Systems modeling, Controllers design, Modern Control.

2014 - 2018 **Auxiliary**, *Programming I*, Facultad Regional Buenos Aires - UTN

Head professor: Eng. Mariana Prieto Canalejo

Subjects: C programming language under GNU/Linux environments.

Awards and Special Mentions

2010 **Projects Fair**, *UTN-FRBA*

Project: Three Axis CNC Controller

Category: Practical Assignments

Award: Third Place

2017 **Innovar Fair**, *Ministry for Science and Technology*

Project: Autonomous Navigation Platform

Category: Innovative Product and Design