Eindhoven, Netherlands

☑ felipediniello@pm.me
Nationality: Argentinian, Italian
Phone No.: +31 6 2727 4135
Age: 35 y.o.

Felipe Nicolás Diniello

Current Job

Nobleo Technology

Aug. 2022 - Eindhoven - Netherlands

Position: Software Engineer

Duties:

Felipe performs as a developer for external and internal clients projects. For internal assignments he has been aiding in the architecture development for an IoT Platform focused in the Real Time Communications between Edge Devices.

As a developer for external clients he has been working in projects related to dynamic networking in mobile environments, and CAN Bus diagnostics in robotics. *Used tools:*

- STM32 microcontrollers
- Docker
- Embedded Linux OS (Yocto and Buildroot)
- C/C++, Makefile, CMake for cross-compiling.
- GTest and CTest

Technical Skills

Programing Languages

- O 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 Technologies

- O Experience using GPG tools for encrypting and decrypting files, verifying digital signatures.
- O 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
- loT Hub
- loT Edge

Operative Systems

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

DevOps Tools and Technologies

- \circ Experience working and setting up CI/CD for custom targets with **Jenkins**
- O 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

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: Technical assistance in pre-sales for cloud based solutions that require any kind of interaction

with hardware devices.

Overview R&D projects for prototypes or proof of concepts to demonstrate viability on new ideas

coming from clients or for internal purposes.

Develop and Architect solutions for embedded software applications or firmware over different

architectures and OSs

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

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 initiazion

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