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Felipe Nicolás Diniello

Current Job

Nobleo Technology

2022 - Aug. **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:*

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

Technical Skills

Programing Languages

- Advanced knowledge on **C/C++**. OOP, Templates y Design Pattern implementation.
- Intermediate knowledge on **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).

Cloud Environments

Worked with and developed solutions using the following building blocks from Azure:

- Azure IoT Device Provisioning Service
- Azure IoT Hub
- Azure IoT Edge

Other tools or systems

- Long term experience using, and setting **GNU/Linux** environments
- Experience working and setting up CI/CD for custom targets with **Jenkins**
- Usage of **Docker** for setting up custom toolchains for cross-compilation

CAD Tools

- Experience with PCB design tools: **KiCAD**
- Advanced experience with parametric 3D CAD **FreeCAD**
- Experience with 3D printing: **Cura**.

Qualifications

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

Languages

Spanish, *native*

English, *advanced*

French, *basic*

Prior Experience

Globant

2017 - 2022 **IoT Studio**, *Buenos Aires, Argentina*
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: Assignments
Award: Third Place

2017 **Innovar Fair**, *Ministry for Science and Technology*
Project: Autonomous Navigation Platform
Category: Innovative Product and Design