LO MANTO FABRIZIO

SENIOR SOFTWARE DEVELOPER

👤 **Driving Licence B**

📅 **07/11/1986**

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🌐 **https://neoxnitro.github.io/portfolio/**

📍 **Tenerife, 38611 San Isidro**

SKILLS

● **Programing language**

c Linux, Python, Shell Script, SCADE, PHP, HTML5, CSS, Javascript (vanila), Laravel, Trongate, Tailwind

● **Dev IDE**

Visual Studio Code, Atmel studio, Ansys SCADE Suite, notepad++, PhpStrom

● **Language**

French (native), Italian (native), English (B2), Spanish (A1)

CERTIFICATIONS

2022: BEPS (European First Aid Certificate)

2018: Pragmagora: conflict management, team-building and teamworking.

INTERESTS

DIY, home automation, electronics, 3D printing, sports, dance

PROFESSIONAL PROFILE

● **Software developer**

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Software developer specializing in **full-stack development** and **embedded systems**, with experience in both user-centric online platforms and real-time military-grade applications. Proficient in PHP, JavaScript, C, Python, and frameworks like Trongate, Laravel. Skilled in MySQL/MariaDB database design, custom UI components, and API integrations (WhatsApp, SMS, payment, resource management). Experienced in middleware-firmware communication, embedded software development, and system simulation. Passionate about delivering efficient, tailored solutions that balance performance, usability, and technical excellence.

WORK EXPERIENCES

● **MrCool**

Delivery Driver   2024 **-** 2024

Delivery, order taking, synchronization and cash collection with the client, goods pickup and inventory management.

https://mrcools-hireshop.com/

● **Resdia**

Software Developer / Software Architect / Database & System Designer   2023 **-** 2024

Adaptive Online Reservation Platform

Designed and developed a dynamic online reservation platform enabling providers and agencies to collaborate efficiently under various constraints.

Framework & Technologies: Built using the Trongate framework, PHP, Vanilla JavaScript (Ajax SPA), Node.js, HTML, and CSS.

Database Management: Designed and optimized a MySQL database with sophisticated queries for efficient data retrieval and processing.

Custom Components: Developed tailored features, including a custom calendar, widgets, and app-specific components to enhance usability and workflow.

Conceptual Data Modeling: Structured and implemented a well-defined Conceptual Data Model for seamless data organization and business logic handling.

API Integrations: Integrated WhatsApp API, SMS sender API, and email API

for automated communication and notifications.

Performance & Optimization: Ensured a high-performance, scalable system with a responsive UI and optimized database queries.

https://resdia.com/

- **Marvin's Tipis**

Web Developer / Full-Stack Developer   2023 **-** 2023

Designed and deployed Marvin's Tipis website, ensuring a functional and visually appealing online presence.

* Technologies Used: Developed using pure PHP, JavaScript (Vanilla), HTML, CSS.

Frontend & UI: Created a responsive and user-friendly interface to enhance customer experience.

Backend Development: Implemented a basic yet efficient booking and contact system.

Hosting & Deployment: Managed domain setup, hosting configuration, and deployment for optimal performance.

SEO & Performance Optimization: Ensured fast load times and search engine visibility with optimized content and structure. (Google Analytics)

https://marvinstipis.es/

- **FN Herstal (internal) :**

Lead Software Developer /
Senior Embedded Systems Engineer   2018 **-** 2022

Primary Project: Teleoperated Turret Development (Defense R&D)

Worked in the military R&D department, focusing on the development of teleoperated turrets. As the lead developer for the weapon management system, I was responsible for the full software integration of the weapon, ensuring seamless communication between middleware and firmware components controlling sensors and actuators.

Software & Embedded Systems Development: Designed and implemented the complete **software architecture** for weapon management.

Middleware & Firmware Communication: Developed robust interfaces to interact with middleware, ensuring proper data flow to low-level firmware controlling sensors and actuators.

Firmware Development: Contributed to the reloading system firmware, working closely with the embedded development team.

Secondary Project: Teleoperated Turret Simulator – Team Lead

Led a team of five engineers in the development of a virtualized turret simulation to replicate external equipment behavior, including cameras, ammo counters, gyroscopes, motion control systems, and reloading mechanisms.

System Virtualization: Developed realistic software models for hardware components to support testing and validation.

Team Leadership: Coordinated efforts among developers, ensuring smooth integration of simulated components.

Cross-Disciplinary Collaboration: Worked with firmware and system engineers to validate real-world behavior in the simulation.

Technologies & Tools:Programming Languages:

C, Python, BashEmbedded & Model-Based Development: Scade (Model-Based Design), AVR C (Atmel Studio)Development Environments & Tools: Eclipse, Git, Alfresco, Hudson, Redmine, BugzillaDocumentation & Testing: Authored technical specification documents, requirements documents, ATP (Acceptance Test Procedures), ATR (Acceptance Test Results), bug reports, and feature implementation plans.

- **Akka Benelux (Consultant FN Hertstal), team leader/architect/project coordinator, system**

  Team leader, Architect and Project coordinator in R&D department, development and maintenance for a simulator   2015 **-** 2017

  project : deFNder Simulator

- **Open Engineering (Consultant FN Hertstal), junior developer, system departement (R&D)**

  Active junior software developer in R&D department, design, development and maintenance   2012 **-** 2015

  deFNder Medium/Light old generation

EDUCATION

- **Haute école de la province de Liège : INPRES Seraing**

  Bachelor's degree in Computer Science & Systems, industrial computer science major   2007 - 2011

  - - Study and practice of the OEE module of Simatic IT (SIMENS).

- **Ecole polytechnique de Herstal**

  Electronic technician   2000 - 2007

  - - Transmission / Reception of the RC5 Protocol (Philips) based on PIC