

# Simone Marra

## lot / Web / Mobile Developer

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### Summary

Passionate for Mobile/Web development, electronics, embedded firmware

Excellent teamwork attitude, experienced customer support and "step-by-step/learn by examples" online tutorials.

### Skills

#### Mobile developer



- Flutter
- Xamarin Forms
- Ionic Framework

#### Web developer



##### Backend:

- Nodejs
- .NETCore (C#)
- Serverless development

##### Frontend:

- Angular
- Bootstrap

#### Firmware developer



C firmware developer for Microcontrollers (ARM, PIC, Xmos, etc...)

TCP/IP Stack + TLS (mbedtls)

Wi-Fi, Ethernet and GPRS/3G Connectivity

IOT, HTTPS, MQTT, Microsoft Azure IOTHUB

Bluetooth LE

Embedded Linux (openwrt, raspberry)

#### Other skills



Scrum planning Tasks

Git/Mercurial repository

Wiki / Markdown / Doxygen Documentation

### Personal info

Born November the 4th, 1983.

Since child I was introduced to electronics, music and diy by my family.

Now I am passing on all my knowledge and passions to my daughter, trying to raise a human being better than me, along with my wife.

## Education

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3-years Electronics Engineering  
La Sapienza University, Roma, Italia

## Work experience

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Full stack developer 2021 - Present

Goodgest srl

- Serverless migration of existing services (architecture planning, code development, deployment and testing)
- Serverless API developer
- Mobile app developer

Developer 2018 - Present

Tracking

IoT-enabled Smart Alarms and Trackers

- Mobile App
  - Flutter developer
  - Xamarin Forms developer
  - Ionic developer
- Azure
  - IoT Hub cloud communication
  - App Service Plan Deployment
- Backend development
  - ASP.NET Core
  - Node.JS
- Front-end development
  - Angular admin dashboards
  - Angular web apps
- Firmware developer
  - IOT devices
  - Bootloaders and OTA updates
  - Data storage (with encryption algorithm integration)
- Linux Embedded
  - OpenWRT
  - Raspberry Pi with both Raspian and Windows IOT-Core systems

AR / VR Developer 2019 - 2019

IT Made Easy / fondation grand paradis

GranParadisoVR - immersive projection with touch-less human interface (Covid-limitations compliant)

- Virtual 360° tour of an ascent to the Gran Paradiso
- No touch human interface to move view position in a 360° VR video
- Desktop app to serve museum totem devices with immersive projection based experience

Developer of Hearing aid helper systems 2008 - 2012

Udito Farm

- Audiometer Hardware design
- Audiometer Firmware development
- Audiometer Control Windows-based GUI
- Embedded Linux (OMAP3530-based) video-recording system
- Interactive DVD for hearing-aid support (dvd-reader multimedia content)

Firmware developer & documentation 2011 - 2017

Openpicus

Firmware developer, documentation, customer support.

IP (Wi-fi Ethernet and GSM/GPRS) connected devices using Flyport-module platform (microchip tcp/ip stack, self-made GSM at-commands parser, freeRTOS)

- Flyport Wifi module libraries
- Flyport Ethernet framework development
- Flyport GPRS framework development
- Wiki & Manuals
- Customer support
- C# Windows IDE development
- MQTT IOT platform for rapid prototyping (cloud based, no programming skills needed, online configure and use expansion devices)

Custom Hardware & Firmware developer 2012 - 2013

Varone Impianti Pneumatici (Industrial pneumatic money transfer systems)

- Custom HW development with rs-485 bus and motor control
- Firmware development
- C#-WPF Windows based control software & PostgreSQL database data storage
- IR reflection presence sensor

DSP HW/SW developer 2014 - 2018

UditoFarmPiù, Active, INAIL

Active control noise system based on XMOS platform.

- Noise canceling earphone to clear siren sound for emergency vehicles operators
  - Custom HW development
  - DSP-routines firmware development

Firmware developer 2015 - 2017

Smartables

Bluetooth Smart (BLE, Low energy) & ARM wearable devices

- CSR BLE firmware development
- Nordic nRF51 BLE firmware development
- Freescale Kinetis firmware development

Developer 2016 - 2019

Iomote

Microsoft Azure IoT-enabled Devices, Iot-services

- ARM Cortex IOT connected devices
  - Ethernet
  - Wi-Fi
  - GPRS/3G
  - GPS
- Arduino-Compatible (Cortex-M0 secondary microcontroller development)
- Linux Embedded connected devices
  - OpenWRT
  - Raspberry Pi with both Raspian and Windows IOT-Core systems
- Azure
  - IoT Hub cloud communication
  - App Service Plan Deployment
- Mobile App
  - Ionic framework development (multi-platform Android, iOS, Windows)
  - Xamarin.Forms development (multi-platform Map-based Android, iOS and Windows app)
- Backend development
  - ASP.NET Core
  - NodeJS
- Angular front-end development