

# Simone Marra

## Iot / Web / Mobile Developer

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## Summary

Passionate for electronics, embedded firmware programmer, Mobile/Web development.

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

## Skills

### Mobile developer



Xamarin Forms

### Web developer



Backend:

- Nodejs
- .NETCore (C#)

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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### Developer

#### Tracking

IoT-enabled Smart Alarms and Trackers

- Firmware developer
- Arduino-Compatible (Cortex-M0 secondary microcontroller development)
- Linux Embedded connected devices
  - OpenWRT
  - Raspberry Pi with both Raspian and Windows IOT-Core systems
- Azure
  - IoTHub 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
  - Node.JS
- Angular front-end development

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 - 2018

#### 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 - Present

UditoFarmPiù-Active-INAIL

Active control noise system based on XMOS platform.

- Custom HW development
- DSP-routines firmware development

Firmware developer 2015 - 2016

Smartables

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

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

Developer 2016 - Present

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
  - IotHub 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
  - Node.JS

- Angular front-end development