

. Francesco Marchianò

I am an electronic engineer. I worked in first part of career as HW developer in the 1a decade and more I developed FW. I am very skilled in C -C++ iso14. I have developed system communication at low level and algorithm to manage that.

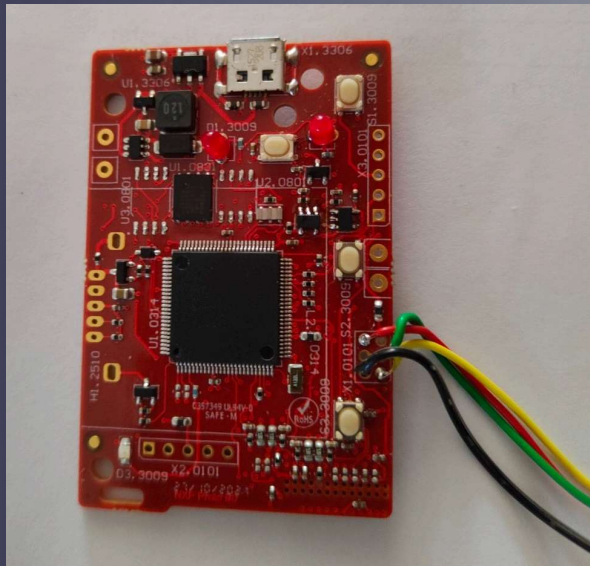


. Jobs

01/2022 – on going

Senior Software developer Embedded, ABB SPA – Vittuone (Mi) - Italy

- Developing software layer ftl to manage writeand read flash in embOS.
- Develop software per MCU NXP for meter
- Visual Studio 2019, git DevOPs, Language C.
- Improvement for the embOS, develop driver, super layer sw to manage apps.



10/2020 - 12/2021

Senior Software developer, *Eudata srl - Milano - Italy*

- Develop software gateway SFU (selective forwarding unit). Developing software Gateway to manage a conference in webRTC technology.
- Clion, gitlab, Language C/C++ mixed.
- Improvement network protocol, RTP/RTSP knowledge, sip technology, audio video management, Poco lib for communication via http and websocket, gstreamer to generate the pipeline of communication. WebRTC technology to generate conference.

04/2019 - 12/2020

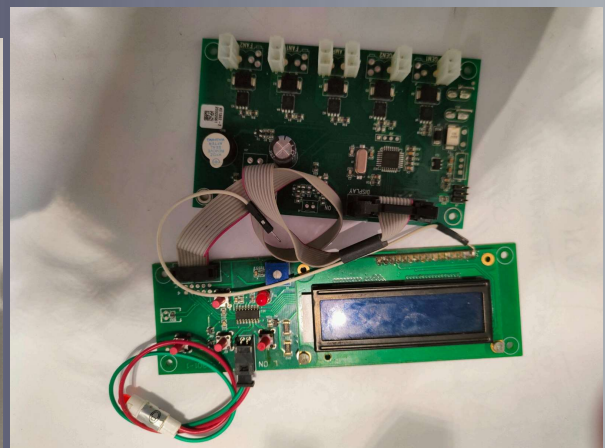
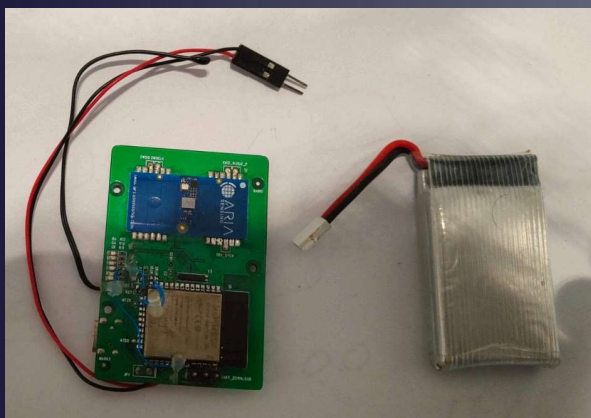
Senior Software developer Embedded, *Silicon Mitus s.r.l - Pavia - Italy*

- Drivers develop for a charger via i2c. used in chromium os EC
- Generate an environment for charger and check driver functionality for EC generally was an stm32 cortex m, using protocol USB type-C
- Eclipse, GitHub, Language C, python, RTOS For EC.
- Improvement dell'RTOS, develop driver, USB type-C protocol.

04/2020 - 12/2020

Senior Software developer Embedded, *Digimediacom srl - Milan - Italy*

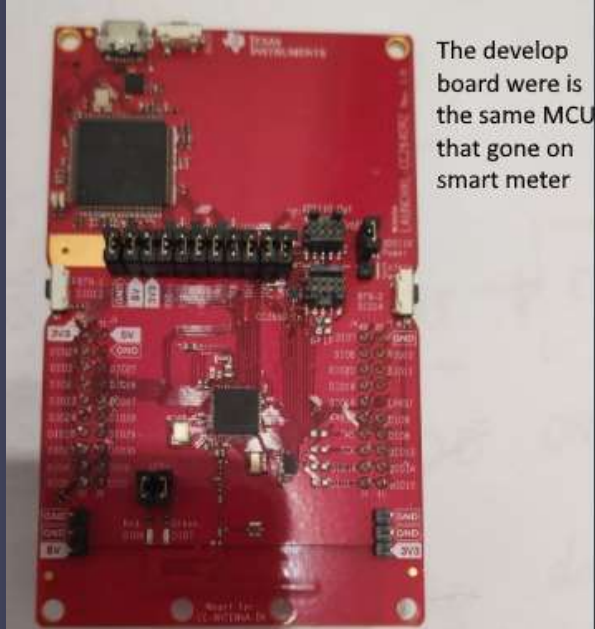
- Develop software per MCU NXP for meter
- Developing OTA on esp32 via BLE stack.
- Developing software for device of disinfection
- Eclipse, gitHub, Language C++, LTSPICE for the circuit part, FreeRTOS, MCU used Esp32 for radar and atmel 8bit for device of disinfection
- Improvement Environment supplied by esp32, knowledge of C++, FreeRTOS.



07/2019 - 11/2019

Senior Software developer Embedded, *E-Distribuzione - Milan - Italy*

- Develop software per MCU TI for smart meter
- Developing software app on the Ble stack of TI the mcu had with the RTOS owner TI. The app communicates with mobile phone via android app.
- Composer studio in C language, gitGithub, Language C.
- Improvement RTOS, develop driver, BLE, android apps.

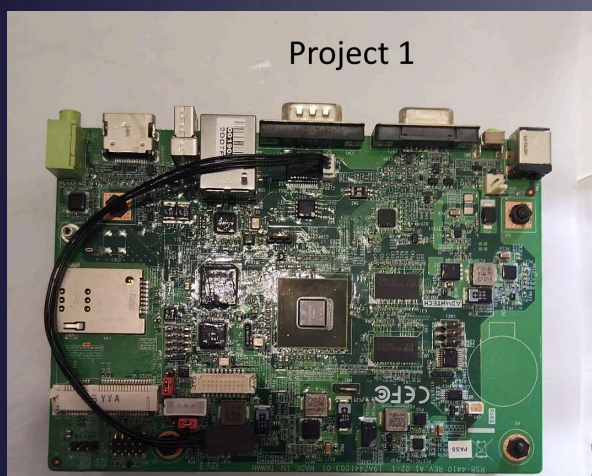


The develop board were is the same MCU that gone on smart meter

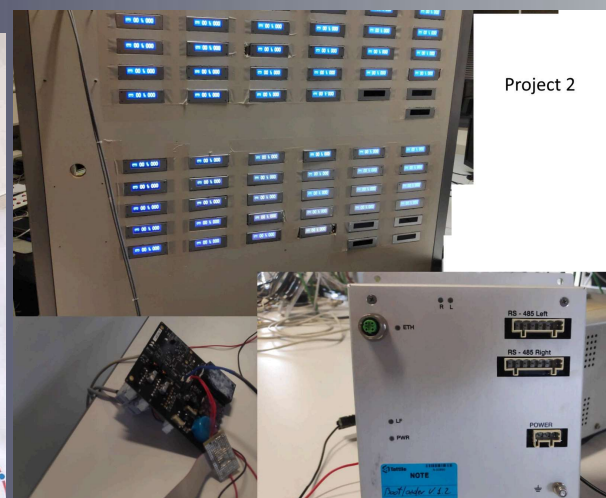
2018 - 07/2019

Software developer Embedded, *Tattile s.r.l - Mairano (BS) - Italy*

- Develop software per MCU NXP imx6
- Develop software for stm32f427 seat controller controller to manage diplay communication.
- Develop some feature for the traffic board that have on board bay trail and ARRIA 10
- Developing software to manage LTE in Project 3.
- Developing software to magage a platform in the project 1.
- Developing software to manage communication between server and client (seat controller) in project 2 and for this last project I develop owner bootloader.
- Eclipse, gitHub, Language C/C++, developing board, buildroot framework. Snmp protocol development. Communication with Modbus protocols via uart rs485, uart rs232, ST-debugger, python, GDB, Prototypal Board with IMX6
- Improvement RTOS, embedded TCP/IP, UDP, MODBUS protocol, SPI communication, I2C communication, Linux embedded develop



Project 1



Project 2

2016 - 2018

Software developer Embedded, *Vodafone Automotive SPA - Vittuone (Mi) - Italy*

- Develop an app VTS (vehicle tracking system) via gps. System antitheft connecting gateway in java
- Develop an app VTS Develop an app VTS (vehicle tracking system) via gps System antitheft cBox in C/C++

- Developing software app, this must use some sensor to detect movement non authorized. The app in scenario of theft have to send message to server to communicate the situation of potential stole.
- Eclipse, svn tortoise, Language java/C/C++, kalimetrix.
- Improved knowledge in C/C++/Java

2012 – 2016

Software/Hardware developer, *MEDIASET SPA – Cologno Monzese-Segrate (Mi) - Italy*

- Develop and rework product DVBT/T2 DVB-S/S2
- Certification and develop all product of the ecosystem DVB.
- Develop decoder with Linux on board
- Developing software For DVB e rework application
- Eclipse, jira , Language java/C/C++.
- Improved knowledge in C/C++/Java

2010 – 2012

Technical Responsible to Quality Control, *Metronic srl – Vermezzo (Mi) - Italy*

- Develop and rework product DVBT/T2 DVB-S/S2
- Certification and develop all product of the ecosystem DVB.
- Develop decoder with Linux on board
- Developing software For DVB e rework application
- Eclipse, Language java/C/C++.
- Improved knowledge in C/C++/Java

Education & courses

Education

11/2008 - 12/2008

Training course for designer in photovoltaic plant and systems by Mesos in ENEA.

The course was focalized for designing in photovoltaic field of different dimensions.

Graduated 140/150

1998 - 2007

Bachelor degree in Electronic Engineering at Polytechnic of Bari.

The course was focalized for designing in photovoltaic field of different dimensions.

Graduated 100/110

- **Courses**

31/3/2015

Course for Vivado to programming FPGA Xilinx

Couse on ARTY 7one day of course to understand how works Vivado

Complete

Every year

English course

At wall street institute to improve the capacity of communication in English.

Complete

2017

Course android online

The course gave the basis to make the app Android with android studio.

Complete

2016

Course online C and C++ advanced

The course are focused on programming embedded

Complete

2014

Course Lean management

The course is in four module two basis concepts of lean management and two intermediate concepts of lean management with real scenarios

Complete

2014

Course Java online

The course gave the basis to make the app in Java with Eclipse/Netbeans. I followed the basic and intermediate.

Complete

2011

Evidence Course Linux embedded 2 days

The course was un introduction to Linux embedded developing
Complete

Expertise

Programming	Hardware skills	IDE Use	Debugger	Metrix	Other
C Excellent	Manual soldering Good	Eclipse Clion	ST-Link Good	Kalimetrix Good	Linux Excellent
C++ Good	Oscilloscope use Excellent	Code composer	j-Link Good	Misra Good	Windows Excellent
Java Good	Spectrum analyzer Excellent	MCUXpresso IDE			Office Excellent
Python Basic	Signal generator Excellent				Ltspice Excellent
GCC Good	Multimeter Excellent				Orcad/Pspice Excellent
GDB Good	Lab power supplier Excellent				

Portfolio

2007

Title of the thesis

Investigation of thermo-optic effect in the rib waveguide using structure SOI, Silicon Nanocrystals, and Polymer Materials

2007

Mixed project

DAC -Filter for conversion digital to analog . The aim of the project was use a digital word to change the cut off frequency of the filter. The DAC was piloted via current

Languages

Italian

Spoken
Native

Written
Native

French

Spoken
B1

Written
B1

English

Spoken
B1

Written
B1

.Leisure

I like swimming and playing chess.

