

MAUDE CRESCENT, WATFORD, HERTFORDSHIRE, WD24 6BN
+44 7517028695

- DARIOSANTAMARIA@HOTMAIL.IT/ INFO@DARIOSANTAMARIA.IT

PERSONAL WEB SITE ([HTTP://WWW.DARIOSANTAMARIA.EU/](http://WWW.DARIOSANTAMARIA.EU/))

TO SEE THE CERTIFICATIONS
([HTTP://WWW.DARIOSANTAMARIA.EU/EN/SCARICA-CV/](http://WWW.DARIOSANTAMARIA.EU/EN/SCARICA-CV/)) PASSWD:09111983

DARIO SANTAMARIA

PROFESSIONAL GOALS

Find a job relating to the studies achieved, which gratifies me and give me the opportunity to grow professionally.

EMPLOYMENTS

November 2014 – Today

hardware/firmware designer, Instrotech Ltd Watford (Hertfordshire):

- Hardware Designer for safety electrical equipment
 - electrical schematic
 - designing PCB
 - use components like IGBT, OpAmp, Step-Down, H-bridge, ADC16bit etc
- Firmware Development (ARM Cortex/ PIC)
 - flow chart
 - states machine design
 - use micro Nuvoton ARM Cortex, Freescale Kinetis ARM Cortex, Microchip PIC 8bit/32bit
- Documentation
 - HTML editor (Seamonkey)

Skills:

- Coocox IDE (for ARM CORTEX/ GCC Compiler)
- MplabX (XC32/ XC8 Compiler)
- Kinetis (Freescale, K1xxMicro)
- CCS (Code Composer Studio, MPS430) (**just started**)
- Energia IDE (Texas Instruments) (**just started**)
- Arduino Uno/ Mega/ Micro
- PCB designer (Altium v14)
- PCB designer (Kicad 2015)
- Linux O.S. (Ubuntu 14.04 LTS)

Others Skills (not at work):

- RaspberryPI 2
- Cubieboard 2
- PcDuino V2
- Micro Python board
- STM32 F4 Discovery Board
- STM32 Nucleo Board (F0-F4)
- Bluetooth v2.0 EDR (BC417)
- Bluetooth v4.0 BLE (CC2541)
- Bluetooth/802.15.1 Dev. Tools NRF52 Dev Kit for nRF52832 SoC (**just started**)
- Oled Display 128x64 (SPI/ I2C)

January 2014 – October 2014
hardware/software/firmware designer, freelance:

- Desing and implementation of custom-shields and drivers for RaspberryPI/ Cubieboard
- Development of web pages for the remote control of electronic devices (LAMP/ LEMP platform)

Skills:

- PCB designer (Kicad 2013)
- electrical design (Orcad)
- python programming (GPIO manipulation)
- php programming (server Apache)
- Mysql database (phpmyadmin interface)
- Linux O.S. (Raspian, Cuban)

February 2012 - November 2013
HW/SW/firmware designer, Selt Sistemi s.r.l. Arese (MI):

- Design and development of automated test benches for radar equipment (radar Gabbiano, Finmeccanica)
- Certified LabVIEW Developer(CLD)
http://www.ni.com/services/certified_labview_developers.htm?country=Italy
- Design and development of electronic boards for signal conditioning
- Design and development of simulators avionics(bus CAN, CanAerospace NH500 protocol, CanOpen Tornado protocol)
- Design and development of synoptic EPGDS (Agusta Westland)
- Firmware development (Microchip 32bit and Atmel 8 bit)
- Design and development of “protocol ethernet custom” via Xport (Lantronix)
- Design and development of automated test benches for the project IXV (Intermediate eXperimental Vehicle)

Skills:

- electrical design (Orcad)
 - labview programming (national instruments)
 - bus CAN “aerospace” (Kvaser tools)
 - MplabX IDE (C32-XC32-XC8microchip compiler)
 - Mikroelektronika IDE (PIC32 compiler)
 - AVRStudio 5 IDE (8 bit compiler)
 - Lantronix tools (from ethernet to UART and vice versa)
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May 2008 - January 2012

Test Engineer R&D, Magneti Marelli SE Corbetta(MI):

- *Definition and implementation of test sequences to test the prototype instrument panel clusters (TestStand)*
- Definition of the test specifications to ensure the proper functioning and integrity of the complete product and the subsequent verification and validation of the test benches to End Of Line in production department
- Study of the percentage of electronic components tested at the station ICT (In Circuit Tests)
- Development of libraries of vision for the automatic acquisition of images
- Development of communication libraries (bus CAN)

Skills:

- TestStand tool (national instruments)
- labview programming (national instruments)
- bus CAN “automotive” (Vector tools)

June 2007 – April 2008 (only weekend)

waiter, San Marco Restaurant Mozzate (CO).

March 2007 - May 2007

warehouseman, Tessilgroup Rovellasca (CO).

January 2003 - february 2007 (only weekend)

waiter, San Marco Restaurant Mozzate (CO).

EDUCATION

Graduate in 03/03/2008

From 2002/03 to 2007/08 Bachelor: *Electronic Engineer* at the Politecnico of Milano (MI).

Tesi: Design of a automatic test bench for power converters.

From 1997 to 2002 Technical institute of Saronno(VA)
Electronic Technician

INTERNSHIP

October 2007 - February 2008

Testing EOL, Gefran Siei Gerenzano(VA):

- *Definition and implementation of hardware and software for testing of End Of Line power converters*

July 2000 - September 2000

Workman, Pacotem Fenegrò(CO):

- *Civil electrical installations*

LANGUAGES

Italian

Level: Native language

English

Level: Good (I'm still improving the english language)

SOFTWARE

Operating system

Windows: 9x, 2000, ME, XP, vista, 7, 8, 10

Linux: Ubuntu (14.04 LTS), Debian

programming language C

Level: High

programming language Python

Level: good

Assembly

Level: good

Html

Level: good

PHP

Level: good

MySQL

Level: good

Matlab

Level: sufficient

LabVIEW (National Instruments)

Level: High

Development of graphical interface/ protocol for managing the CAN communication (Keyword2000) using the NI-CAN

(High speed:[NI USB-8473](#) & Low speed:[NI USB-8472](#))

TestStand(National Instruments)

Level: good

Development of steptypes for CAN communication

(Keyword2000) via the NI-CAN

(High speed:[NI USB-8473](#) & Low speed:[NI USB-8472](#))

Orcad pspice

Livello: good

Office package

Livello: good

CanAlyzer

Livello: good

Autocad 2D

Livello: sufficient

HARDWARE – COMMUNICATION PROTOCOLS

Experience in programming microcontrollers using the RTOS PICOS18 (OSEK/VDX).

Designed and implemented a CAN-USB device configurable from PC (user-friendly graphic interface) and stand alone.

Bus CAN
Level: good

Bus LIN
Level: good

Bus RS-232/ RS-485/ RS-422/ UART
Level: good

Bus I2C
Level: good

Bus SPI
Level: good

Good knowledge of laboratory equipments (Oscilloscope, Function generator, Multimeter) and soldering technique (Microcontroller QFPN SMD as well).

PERSONAL INTERESTS

Music	(sing and play the guitar)
Dance	(salsa portoricana, salsa cubana, rueda de casino, bachata, merengue, cha cha cha, kizomba)
Electronic	(design and make electronic circuits for personal interest)
Astronomy	(conference, observatory)
Motorcycle	(have a fantastic Ducati motorbike)

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23/06/2016