Emanuele Placidi   Curriculum Vitae

Tel: +39 3208283202

DOB: 14/05/1980

Address: Via Lunga n 40
                23807 Merate Lecco

Strong motivated, determined, quick learner.
Never give up in front of new challenges, creative problem-solver.
Self-aware and always seeking to learn and improve.
Team-player as well as self-sufficient
Emotionally mature, calming and positive temperament, tolerant and understanding.
Researching and exploring.

OBJECTIVES:

To find a challenging position to meet my competencies, capabilities, skills, education and experience in Information Technology Industry.
Preferred R&D Industry/University that offers Professional growth while being resourceful, innovative and flexible.

EDUCATION BACKGROUND:

Bergamo University– 2002 - 2005
Italian score: 95/110 International Score:86%.
Bachelor of Science in Computer Engineering.
More info at [Bergamo University](http://www.unibg.it/struttura/en_struttura.asp?cerca=en_LT-II) (http://www.unibg.it/struttura/en_struttura.asp?cerca=en_LT-II)

Bergamo "A. Locatelli" Aeronautics Higher Secondary School – 1994/1999
Italian Score: 85/100 International Score: 85%.
More info at [Bergamo Aeronautic institute](http://www.istitutoaeronautico.it/)
(http://www.istitutoaeronautico.it/).

TECHNICAL EXPERIENCE:

Programming Languages:
C, Perl , JAVA, Bash, HTML, Perl, Object C,C++.
Platforms:
Windows xp/98/95,2000,NT,7 GNU/Linux, QNX, MACOS.
Concepts:
Networking, operating systems, virtualization (qemu+kvm) vt-x, vt-i, vt-d.
Archs:
intel, mips64, ppc, avr,arm.

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Devices:

 Broadcom Switch: bcm5675, bcm56504, bcm56820,FE1600
 Broadcom PHY: bcm5464R
 Marvell Switch: 98DX270, 88E6122, 98CX82xx(Lion family), 98DX3136
 Marvell PHY: 88E1240
 LIS3DH STM 3 axis accelerometer
 L3G4200D STM 3 axis gyroscope
 MAG3110 Freescale 3 axis magnetometer

Protocols:

 802.3, i2c, spi, mdio, 1wire

ACHIEVEMENTS:

15/06/13 – on going as Adv. Consultant/Engineering in N&W Globalvending

 Developing of vending machine Firmware based on ARM cortex m3 platform
 Analysis, design and implementation of new vending machine platform based ON
 YOCTO PROJECT linux distro. The implementation was only a demo with all
 required hw supported and a simple QT4 gui,but it was aim to be the base to
 start a well designed foundation for new vending machines family.
 During the Demo development yoct project has been successfully customized to
 fit the hw, using the bsp layer system.
 The device driver for the CAN bus has been customized a modified to fix
 freescale device bugs.
 A touch screen driver has also been ported .

 Beside the new platform demo, new features and bug are added and fixed on old
 products.
 I'v been involved in the developing of two new machine restyling.

 Expirienced withL
 - CAN, spi, i2c protocols
 - Developing on freeRTOS, RTOS and Linux based platform
 - Touchscreen device driver porting
 - Yocto BSP customization end extension.
 - Ad hoc Ruby script tool for multilingual file processing and checking

08/04/13 15/06/13 as Advanced Embedded Software in ADB ex Pirelli Broadband

 I've ported all the work done on the previous version of hostapd-1.1 to the new
 hostapd-2.1 for the internet gateway product based on MIPS architecture.
 Challenging task because of the lack of documentation both for hostapd
 expected behavior and for Broadcom bcm96368 wireless chip.
 Deal with:
 - Integrating patch, configuration script and program with Openwrt build sistem.
 - Closed source device driver from Broadcom.
 - WEP , WPA and WPA2 authentication protocols.
 - WPAsupplicant and hostapd configuration.
 - PCI device driver configuration.
 - gdb and gdb server over Ethernet remote debugging.
 - MIMO (Multi Input Moulti Output) antenna testing.
 - 802.11abg protocols.

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196/2003.**

15/03/12 – 08/04/13 as Embedded Software/R&D manager for co-founded EMCR

I've developed an embedded SW for Medical device based on ARM7 Processor without OS, its relative client software for data interpretation and medical report.
Deal with:
- Graphic LCD management in low memory situation.
- Temperature sensor, SD storage. IMU, wifi and Serial Over USB protocol.
- PC based software developed in Java.
- Database , PDF ,Graphic visualization, serial communication, wireless.
- Program deployment with INNOSetup script.
- Designing business WEB site using Wordpress.
- Dealing with customer problems and requests.
- Dealing with revision control git and test procedures.

30/06/2011- 15/03/2012 as Embedded Software Specialist for NSN

I was involved in the development of the new Base Transmission Station (BTS) for GSM/UMTS TLC. The Architecture was based on MIP64 Octeon Processor with 8 cores.
I've maintained and managed simple executive programs for GSM protocols termination.
Deal with :
- BTS's OS installation procedure and upgrading(GNU/linux).
- BTS's services start-up script.
- Developing of a procedure for the automatic upgrading of a running system without any downtime.
- Integrating new 3dh part software and services inside the system.
- Troubleshooting and support to high level software developer.
- Supporting other user writing wiki and procedure documentation.
- Understanding system architecture requisites.

12/11/2010 – 30/06/2011 As Embedded Software/Architect Expert for Cisco

Deal with :
- Device driver design and implementation.
- Writing device driver API documentation for reference.
- Virtual machine tuning in respect to CPU utilization managed by Linux CFS scheduler and number of virtual host and assigned HW resources.
- Testing both hardware and software releases from internal suppliers.
- Geographically distributed software and HW design and develop either by internal and external supplier.
- Version control with cleartool.
- Software and system wikis editing.

01/09/07 – 12/11/2010 As Embedded Software Expert for NOKIA

Deal with :
- device driver and bootloader (u-boot) code review.
- Windriver development kit tools and BSP(WRL2.0 WRL3.0 WRL4.0).
- Project and review system architecture specifications for Hub, DSP, Sync, CPU and Line blades.
- Testing both hardware and software releases from suppliers.

- Take and follow tickets from internal customers and eventually, if unsolved, open tickets directly to the suppliers.
- Versioning and releasing software drop to internal customers.
- Product driven Wikis editing.

4/01/05 – 01/09/07 As Linux Device Driver developer for Siemens

I have wrote low levels device drivers and applications for mobile networks infrastructure as the Base Station Controller eBSC. Better experienced with L2 switch from Marvell and Brodcom manufacturers.
Waterfall projects were 6to9 moths long.
Agile project were 4to6 month long.
Project size between 1k-4k LOC.
References :

Martin Weetman
European Technical Director - Broadcom Corporation
Phone   +44 7798 903766
mweetman@broadcom.com
Osculati Franco Tel. +39 3484537184
franco.osculati@moxconsulting.it

15/06/04 – 10/12/04 As intern in STMicroelectronics

I have designed and realized an ALSA compliant Device driver for the Nomadik System on Chip project.
http://www.st.com/nomadik
http://www.linuxdevices.com/news/NS2734853611.html

References :

David Siorpaes:
david.siorpaes@st.com
Mobile: +39 3577142845

28/11/00 – 20/10/01 As technician

I was in charge to follow the preparation, installation and test of financial data acquisition system for Reuters network. Our customers were financial offices, banks and insurance company within all the north Italy INTESA GROUP, ING. Direct. Processing 3-4 installations in a 1 week long time frame.
References:

Marilli Marco:
marco.marilli@sorint.it
Mobile +39 3356939987
Terzi Michele:
Michele.terzi@sorint.it
Mobile +39 3356974921

26/01/00 – 30/04/00 As barman

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I was employed in a CostaCofee bar (a subsidiary of Whitbread plc) inside the Stansted Airport (ESSEX, UK). Business size between 150/300 customers per day, duty period was from 8 to 12 hours per days.
References:
        Ben Lockett: Unit Manager, Costa, Arrivals Hall,
        Stansted Airport, Essex U.K.
        +441279 662401
        +44973 248828

CAREER HISTORY:

15/03/2012 – on Going
        Emcr, Milano
30/06/11- 15/03/2012
        Valueteam/NTTData, Milano
12/11/10 – 30/06/11
        Cisco Photonics, Monza, Milano.
4/01/05 – 12/11/10
        Nokia Siemens Network,Cinisello Balsamo, Milano.
15/06/04 - 10/10/04
        STMicroelectronics Srl Agrate, Milano.
28/11/00 - 20/10/01
        Sorint di Marilli e C. s.a.s Cinisello Balsamo Milano.
04/02/00 - 30/04/00
        Costa Cofee Essex, U.K. Heatrow Airport.

PERSONAL PROJECTS:

Workbench GUI Designer
To simplify the design of GUI for industrial/embedded system a Java based program has been developed for Tecnint HTE (http://www.tecnint.it/).
The Workbench permits to organize the usual GUI components, buttons, text areas, labels and toggles within pages sized as the machine available display.
Specific input devices, event and trigger can also be managed, linking one of the previous input classes to a specific action or set of actions. When the design is complete an xml file is produced, it can be directly uploaded on the target or further processed with and external program/application connected to the Workbench, using a plug-in approach, to obtain a machine dependent GUI description.

Boiler Project.
http://sourceforge.net/projects/boiler-template/
I'm also known as Zad or Zad80 , it's depend on the site user name availability.
Me and the other project developer have designed the main source code generator, while

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at the moment I am the main responsible of the source's templates.

VxWorks2Linux translation layer.
Within the boiler project I have made a vxWorks system call wrapper layer. This was needed mainly to facilitate the porting of native vxWorks device drivers into the GNU/Linux kernel.(A kernel patch was also made to fully exploit thread stopping feature).

OTHER ACTIVITIES & HOBBIES:

TaiChi, Jogging.
Reading E-books.
Net surfing, Experiment with Electronic equipment
(ARDUINO UNO/ ARDUINO DUE).

My personal profile is also available at:
http://www.linkedin.com/profile?viewProfile=&key=55133000

SITE:
http://www.zad80.altervista.org

DECLARATION
I hereby declare that the above written particulars are true to the best of my knowledge and belief.

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