

## PERSONAL INFORMATION

## Giuseppe Barba

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 [giuseppe.barba@gmail.com](mailto:giuseppe.barba@gmail.com)

Sex Male | Date of birth 18/03/1979 | Nationality Italian

## WORK EXPERIENCE

January 2014 – Present day

**Senior Software Engineer**

STMicroelectronics, via Tolomeo 1, Cornaredo (MI)

- Linux device driver for Motion MEMS devices
- Android HAL and device driver developer
- MEMS customer support

**Sector:** Motion MEMS Group

January 2011 – December 2013

**Senior Software Engineer**

STMicroelectronics, via Tolomeo 1, Cornaredo (MI)

- Power constrained firmware developer
- ARM<sup>®</sup> Cortex M4 FreeRTOS developer
- ARM<sup>®</sup> 926 Linux kernel developer
- Android Application Engineer
- Android Stagefright integrator
- Android Firmware porting on SPEAr1340, ARM<sup>®</sup> Cortex A9 based SoC
- ARM<sup>®</sup> Cortex A9 Linux Device Driver and Linux user space software developer

**Sector:** Digital ASIC Group

November 2010 – January 2011

**Software Consultant**

Altran SPA, Milano (MI)

- Ericsson CN500 firmware engineer

**Business or sector:** Network Radio Link

July 2008 – November 2010

**Independent Software Consultant**

STMicroelectronics, via per Amesano 16, Lecce (LE)

- MoCA 2 MAC Layer design and firmware developer
- Performance analysis on IEEE 802.11p MAC Layer
- Physical Radio Channel modelling and simulation
- Wireless Network performance simulation

**Business or sector:** AST Connectivity MAC-Team

## EDUCATION AND TRAINING

October 2006 – April 2008

**Master Degree in Computer Engineer**

ISCED 5

Salento University, Lecce (LE)

**Vote:** 110/110 cum Laude

**Thesis title:** "An hybrid simulator for the validation of solution based on Vehicle Communications"

- Network Emulation
- Vehicular Radio Communication
- Testbed

November 1999 – October 2006

**Bachelor Degree in Computer Engineer**

ISCED 4

Salento University, Lecce (LE)

**Vote:** 106/110

**Thesis title:** "Unbalanced Multiple Description with Variable Frame Rate"

- H264 video format

- Video broadcast on high bit error rate mediums

PERSONAL SKILLS

Mother tongue(s) Italian

Other language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	B1	B1	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Communication skills

Good communication skills gained through my experience as Customer Supporter. I work together with colleagues of different nationalities and time zone, using phone conversation and e-mail.

Computer skills

Software tools:

- Good command of Microsoft Office tools (Word, Excel, PowerPoint) and LibreOffice
- Good command of Linux Desktop Environment (KDE, Gnome, XFCE)
- Good command of GNU autotools

Operating Systems:

- Linux
- Mac OSX
- Microsoft Windows
- FreeRTOS

Programming Languages:

- C, C++: very good experience
- Java: good experience
- PHP: good experience
- C#: good experience

Software Frameworks:

- Microsoft .Net
- Nokia QT Tool Kit
- Android SDK
- J2EE

Embedded device skills:

- ARM Cortex M3/M4, Cortex A9 and ARM 926
- Linux kernel developer for ARM (starting from v2.6.32 to v3.8)
- Linux Device Driver ([git://git.stlinux.com/spear/shg/linux.git](http://git.stlinux.com/spear/shg/linux.git))
- Power management
- Contiki and ZigBee motes (STM32W based)
- Android device driver, HAL and Framework porting (<http://code.google.com/p/floid/>)
- Lauterbach and OpenOCD JTAG debugging tools

Developer UI

- Eclipse
- Visual Studio
- QT Creator

- Other skills
- Printed Circuit Board (PCB)
  - Electronic circuits

Driving licence A, B and C

#### ADDITIONAL INFORMATION

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- Publications
- “*Unbalanced Multiple Description with Variable Frame Rate*”, presented in the IWCMC 2009 Multimedia over Wireless Conference and included into the ACM Digital Library.
  - “*Comparative Analysis of IEEE 802.11p and RR-Aloha+ in Vanet Scenarios*”, presented in VANET’09 conference
  - “*Solution for the scalability of Broadcast Forwarding in Vehicular Networks by Map-Referenced Information on Node Position*”, to be present on Wimob 2010

- Personal Interests
- Internet Technology
  - Internet Security
  - Mobile Communication
  - Embedded Operating Systems
  - Device Drivers
  - GNU/Linux
  - MAC OSX
  - Digital Photography
  - 3D Computer Graphics
  - Android
  - Internet of Things (IoT)
  - Autonomous Systems
  - Unmanned Aerial Vehicle (UAV)
  - OpenPilot
  - FreeRTOS and embedded systems
  - Spearfishing

Lecce, 10/4/2014

Ing. Giuseppe Barba

*In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree.*