

## Stefano Benamati



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**Nationality:** Italian

**Birth date:** 11 october 1968

### Educational achievements

**1998** Bachelor's degree in computer science at *Università degli studi di Verona*, Italy

### Professional experience.

**2010 - present** *Programmer freelancer*

- Develop Android applications
- Develop machine vision applications
- Develop C++ software

**2007 - 2010** *4MR Solutions – Rio de Janeiro – Brazil*. The company develops solutions for the automotive industry.

- Developed OCR software to read speed limits
- Developed from scratch a file system to record images from security cameras; this file system minimizes the motion of disk heads, it is failure resistant and digitally signs the data.
- Developed a compressed image file format to store images from security cameras.
- Developed a server which collects GPS data from an arbitrary number of vehicles on a route (typically bus) and calculates the optimal speed for each vehicle in order to keep them equispaced.

**2004 - 2006** *BenQ Siemens Mobile – Kamp-Lintfort, Germany*. The company designs and develops UMTS and GSM mobile phones.

- Member of the core integration team. My tasks were power measurements and validation of battery charging algorithms.

**2002 - 2004** *MS-Lab SRL - Trento, Italy.* The company designs and develops embedded systems for industry automation.

- Responsible for software development
- Developed firmware for embedded systems
- Linux administration and programming
- Member of the hardware debugging team

**1999 - 2002** *Neuricam SPA - Trento.* The company designs and develops intelligent systems based on neural technologies and artificial vision and designs Application Specific Integrated Circuits (ASIC) on this purpose.

- Responsible for software development of an **overtake detector** for the automotive industry.
- Developed firmware in assembly on RISC architectures
- Created test procedures for prototypes and products
- Member of the hardware debugging team (discrete systems and ASIC)
- Created libraries for image processing under fixed point processors in pure assembly

**1999** *“Università di Trento” and “Istituto Nazionale di Fisica Nucleare” (INFN).*

- Developed software for an array of *“neural PC”* (training, generalization, load balance and inter-PC communication).

**1998 - 1999** *“Università di Trento” and “Consiglio Nazionale delle Ricerche” (CNR).*

- Developed software for an information retrieval system based on neural technologies (reimplemented the user interface).

## Skills

- **Operating Systems:** Windows, Linux, Android.
- **Programming languages:** C/C++, C#, Assembly (ARM and ARC), Java, Perl, Bash.
- **Tools:** Borland C++ Builder, Visual Studio, GNU, Eclipse.
- **Areas:** automotive, real time image processing on embedded systems, computer security under Linux, neural computing (hardware and software), Android platform.

## Foreign languages

- **Italian:** mother tongue
- **English:** good working knowledge
- **Portuguese:** advanced