

Curriculum Vitae Frits Wiarda, M.Sc.

Family name: Wiarda
Given name: Frits

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Born: 9 May 1961, Delft, Netherlands
Nationality: Dutch
Marital status: single

Web site: <http://www.fwiarda.com/>

Key Competences

Broad background in telecommunications and electronics. Worked both on the detailed design in all areas (analogue voice band, digital baseband and RF) and as a system architect.

Keywords: Mobile Phone Design, Analogue and Digital Hardware, Voiceband, RF, IP, VoIP, Intelligent Networking, DECT, Bluetooth, WLAN, WiFi, UMTS, GPRS, GSM, SatCom, WLL, PBX, Linux.

Work Experience

2003 - now

Freelance Consultant Electronics and Communications

Activities:

July 2016 - Now Bosch Car Multimedia (Hildesheim, Germany)

Development of electronics for centre console in a car, containing audio and video receivers.

August 2015 - January 2016 Thales (Huizen, Netherlands)

Development of a prototype for an Intel Core i7 processor platform in a military communications system.

March 2014 - July 2014 NXP Semiconductors (Nijmegen, Netherlands)

As RF engineer I was responsible for EMC verification of an IEEE 802.11p transceiver for car-to-car communication.

August 2012 – November 2013 Intel Mobile Communications (Duisburg, Germany)

As RF engineer I have been writing MatLab software to do low level analyses of Bluetooth subsystem in a chip-set for mobile phones. The MatLab software controlled a spectrum analyser and RF generators to do measurements and generate reports.

October 2011 – March 2012 Novero (Bochum, Germany)

As RF engineer I was working on a PCB containing WLAN, Bluetooth and cellular radios. I solved the coexistence between WLAN and Bluetooth, which operate in the same frequency band.

June 2011 - September 2011 Philips Consumer Lifestyle (Eindhoven, Netherlands)

As electronic engineer I investigated quality and safety issues on household appliances, and proposed improvements.

2010 - 2011 Sony Ericsson (Lund, Sweden)

As EMI Engineer I was responsible for suppressing interference to the radio subsystem of mobile phones caused by the digital baseband.

2008 - 2010 ST-Ericsson (formerly Ericsson Mobile Platforms, Lund, Sweden)

As senior staff engineer I was responsible for the analogue baseband design, the Bluetooth RF and Bluetooth baseband design of a mobile phone reference design (Mentor Graphics tooling used). I also automated Bluetooth verification (in Visual Basic).

2007 - 2008 Ericsson Mobile Platforms (now ST-Ericsson, Basingstoke UK)

As baseband engineer for I was responsible for the design of the clocking of a mobile phone reference design (Mentor Graphics tooling used) and verification of the baseband part.

2006 - 2007 Ministry of Defence (Ede, Netherlands)

As lead architect transmission I was responsible for evaluating mobile satellite transmission systems (BGAN, Iridium, Inmarsat-C and DVB) and digital terrestrial radios (DRM and various Combat Net Radios) to be used in a blue force tracking system.

2005 Ericsson (Rijen, Netherlands)

As solution system manager I was responsible for system architecture and project start-up for Mobile Centrex. Mobile Centrex is a virtual PBX in the mobile network realized with intelligent networking applications on a application server.

2003 - 2004 Sony Ericsson (Emmen, Netherlands)

Pre-study and development of a Bluetooth hands free car kit. In the beginning of the project I was responsible for the architecture and the selection of a vendor for speech recognition software. Later on in the project I designed the analogue front end and the baseband hardware (Mentor Graphics tooling used).

Miscellaneous

Installation and configuration of a Linux based web server (Apache / Webalizer), e-mail server (Sendmail / Procmal / Spamassassin / Squirrelmail), file server (Samba), DNS server (Bind) and SIP server (Asterisk).

1993 - 2002 Ericsson (Enschede, Netherlands / Stockholm, Sweden)

- Job titles: Technical Product Manager, Systems Engineer, Hardware Design Engineer
Duties:
- Participation in an ETSI (European Telecommunications Standards Institute) Specialist Task Force.
 - Team leader for pre-study on WLAN and GPRS integration.
 - Specification of a next generation of IP based PBXs.

- Various pre-studies on adding enterprise services to the 3G UMTS network.
- Participation in DECT standardisation within ETSI (European Telecommunications Standards Institute).
- Definition of the product development process (ISO9000 / CMM).
- Specification of complete DECT based Business Cordless Telephony systems.
- Specification and project management of market adaptations for a DECT Wireless Local Loop system.
- Hardware design of a Cordless Terminal Adapter for a DECT Wireless Local Loop system. This product was produced in large volumes (several 100 000s per year). It was a very challenging product because it combined RF, with low cost and extreme climatic conditions (outdoor mount in tropical countries).
- Studies for voice band data performance over DECT radio links.
- Development of a series of analogue line cards for a DECT Business Cordless Telephony system. This involved gaining type approval all over Europe.

1989 - 1993 AMEC Engineering (Schiedam, Netherlands)

Job title: Junior System Engineer.

- Duties:
- Development of TCP/IP software for MS-Windows.
 - Development of TCP/IP software for a real-time control system on dredging ships.
 - Development of a voting machine. This involved both hardware and software.
 - Various work with PLCs.

1987 - 1989 Telenorma (Rijswijk, Netherlands / Düsseldorf, Germany)

Job title: Hardware and Software Engineer.

Duties: Development of an analogue subscriber line interface for a PBX. This involved both hardware and software.

Education

1979 - 1987 Electrical Engineering, Delft University of Technology, Netherlands (Master's Degree)

Thesis: Location registration in the GSM cellular radio network.

1973 - 1979 High School, Delft, Netherlands (VWO)

Knowledge of languages

Dutch (native), English (very good), German (good), Swedish (basic level), French (basic level)

Drivers licence

Regular car

Hobbies

Travel, Photography, Dining