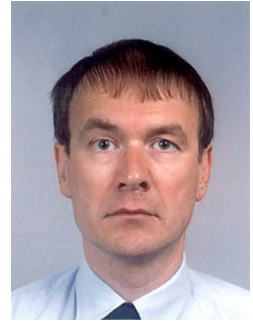


# Curriculum Vitae Frits Wiarda, M.Sc.

Family name: Wiarda  
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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 (analogue voice band and digital) and as a system architect.

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

## Work Experience

**2003 - now**

**Freelance Consultant Electronics and Communications**

Activities:

**June 2011 - Now Philips Consumer Lifestyle (Eindhoven, Netherlands)**

**December 2010 - April 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 / Procmil / 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