

# Jack van Nuenen

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- Objective** Contract
- Personal details** J.W.M. (Jack) van Nuenen, ing.  
Born 1957 June 12, Tilburg, Netherlands  
PO Box 1031, 5512 ZG Vessem - Boscheind 55, 5575 AA Luyksgestel  
tel +31 497-594050 fax +31 497-594051  
Email [jvn@vns.nl](mailto:jvn@vns.nl) - web [www.vns.nl](http://www.vns.nl)  
Not married, 3 children
- Experience** 1994–now VNS Luyksgestel, NL  
**Embedded Systems Design**
- Independent consultant and contractor in the field of embedded system design. Bias on software. Own acquisition.
  - Assistance with R&D projects for a variety of industrial products with micro controllers, DSP's, field busses and communication technologies.
  - User-interfaces, (virtual) prototyping, RTOS-es, UML Statecharts, communications stacks (TCP/IP, CAN and others)
  - Development of many PC based control applications (Delphi).
  - Team support, tool introduction, process improvement at customer sites.
- 1988–1994 PIV Eldutronik / Emotron Bladel, NL  
**Project leader R&D**
- Embedded software, power and control electronics, project management for the development of various models of frequency inverters.
  - Introduction QA system ISO 9001, IRM project for NS (Dutch Railways).
  - International ESSI project with Bang & Olufsen (Dk) and Sextant (Fr).
- 1985–1987 ZAPI de l'Est Bertoua, Cameroun  
**Responsable des Usines**
- 'Third world' development cooperation through SNV, embedded in a Cameroonian organisation for the development of rural areas.
  - Responsible for the construction and maintenance of an electrified infrastructure of *stations de décortilage* (local treatment of coffee).
- 1979–1985 Eldurail / Eldutronik Bladel, NL  
**R&D engineer – documentation engineer**  
Power and control electronics, test applications, products for stable automation (feeding and ventilation systems). Documentation.  
Job interrupted by:
- 1980–1982 De Berkt Veldhoven, NL  
**Attendant, institute for mentally handicapped adults**  
As legally recognised *conscientious objector military service*.

<b>Education</b>	1979	HTS Electrical Engineering	IHBO Eindhoven
	1975	MTS Electrical Engineering	RK MTS Tilburg
	1972	LTS Metal	3 <sup>e</sup> RK LTS Tilburg

### **Software skills**

- C and Assemblers for a wide variety of targets - many years of experience
- Object Pascal (Delphi) under MS Windows - many years of experience
- UML Statecharts (visualSTATE); extensive knowledge and experience
- Object orientation, Component orientation (also in non-OO environments)
- Real-time Operating Systems, Parsers, Schedulers, networking
- TCP/IP, CAN, Fieldbusses
- Version and configuration control, CASE tools, design methods
- Experience with many communication protocols and chips
- Adobe Flash, GUI design, GUI virtual prototyping
- AS3, (X)HTML, scripting, ASP, XML, PHP, MySQL, Web site design

### **Examples of various projects through VNS**

- Design and development, in cooperation with Halin Industrial Solutions, of a CANopen compliant subsystem for a new rotary textile printing machine of Stork Prints
- Development of native Ethernet Drivers for TriCore TC1130 and MPC8544 parts. Creation of NicheStack TCP/IP ports for these involving operating systems such as PxROS and AutoSar. Also other jobs with ARM and ColdFire based targets and various compilation environments (Windriver, GNU, Keil, IAR, CodeWarrior)
- Technical customer support (4 years) on embedded development tools from Lauterbach, IAR, Keil, Phyton, XJTAG and others on behalf of tool distributor Tritec Benelux, serving customers such as TomTom, Océ, iRex
- Technical customer support (2 years) on TCP/IP Stack (NicheStack) and application layers in EMEA region on behalf of Interniche Europe
- Development of an embeddable, generic and MIB independent SNMP (V1/V2c) master library for a Swiss company in railroad automation.
- Creation of a secure web-based remote control interface for a Water Treatment control system, employing Flash, ActionScript 3 (targeting FlexMDK) and advanced Adobe Alchemy techniques to incorporate native C++ code within Flash for off-line configuration work
- Presentation of courses and product introductions of IAR visualSTATE; a StateChart based design, validation and code generation tool
- Fast data acquisition with CAN and Profibus-DP transport drivers for T.I. and Fujitsu microcontrollers in Power Electronics application
- Architecture, design and implementation of the first generation SparkLink software (Delphi) for sample analysis equipment from Spark Holland BV
- Architecture, design and implementation of the GUI of the DMS8000 in-line CD/DVD Mastering machine of OMP (now Singulus Mastering)
- Web design for various artists (creative sector)
- Creation of a proprietary web CMS.
- Design and implementation of Borland 7 classes for linear motor control in the translation unit of a Laser Beam Recorder (Singulus)
- Creation of a protected software system for knowledge-based generation of control parameters for Reverse Pulse Plating processes (EasyPulse)

**Other merits**

- Life long professional experience with industrial electronics
- Experience presenting complex technical products and design tools
- IEEE Associate Member 40055009
- Courses Organisation Theory 1A/1B – Open University
- Courses Project Management, Quality Assurance
- Drivers license BE
- Languages: English (fluent), German, French (workable), Dutch (native)

**Interests**

- Music. Playing guitar
- Squash, fitness.
- General education and freedom of mind