

# Curriculum Vitae

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## Contact information

ir. M.W. Nelisse (Martin)  
Durgerdamhaven 4  
3826 BR Amersfoort  
the Netherlands  
Mobile: +31 (6) 4990 4986  
Email: mwnelisse @ gmail.com / martin @ nelisse.com

## Biography

[Martin Nelisse](#) was born in Rotterdam, the Netherlands in 1968. He received his master's degree in electrical engineering from [Eindhoven Technical University](#) in 1992. He joined TNO in Delft, the Netherlands in 1990 to work in the field of system architectures and communication protocols for distributed real-time embedded computer systems. In 2007 he joined the team of top-technologists within TNO Science & Industry. In 2009 he left TNO and worked as an innovator & embedded systems specialist for wireless sensor networks at Agis Automatisering. After that he worked as a system architect/engineer at Indes New Business in the area of active assistive devices. Since 2011 he is working as a system/software designer of medical instruments at the University Medical Center Utrecht.

- [Employment](#)
- [Education](#)
- [Skills](#)

His research interests include system architecture, hardware/software integration, communication protocols, field busses, wired & wireless networks, software/firmware design & development of device drivers, kernels and applications for microprocessors, microcontrollers and digital signal processors. He is involved in applying these techniques in areas like active-noise control, rehabilitation, data acquisition & presentation systems, industrial automation, automotive/telematics/fieldbus/GPS applications, ultrasound applications and wireless/intelligent sensor networks.

- [Publications](#)
- [Conferences](#)

He is (co)author of three patents in the area of real-time object tracking & vehicle control and high accuracy data acquisition synchronization in wireless sensor networks.

- [Patents](#)

He was active in several EU projects and contributed to an [ISO](#) working group standardising a general-purpose integrated and modular architecture and communication protocol for the rehabilitation environment called M3S. He contributed to a breadboard solution as a base for the first PC-based copiers for [Oce](#) (on-site activity in Venlo, NL). He was involved in a national program for Prognostics & Health Management activities for the JSF airplane at the [Boeing Company](#) (on-site activity in Seattle, USA). After this he was involved in several automotive projects dealing with in-vehicle bus systems, inter-vehicle communication and vehicle

telematics. Followed by several projects using ultrasonic techniques for underwater communication and flow measurements. In 2004 he was part of the team, which achieved a world-record stitched digital photo of 2.5 GPixels. Since 2006 he is involved in projects dealing with wireless/intelligent sensor networks. He contributed to the SensOor project of [AGIS Automatisering](#) (on-site activity in Harmelen, NL), which received 4 awards ('WTC Landbouw Award voor de beste noviteit', 'Boerderij Award voor de veehouderij', 'Boerderij Award publieks prijs', 'Boerderij vakjury Award') at the Agricultural Trade Fair in 2007, the winner of the Dutch 'Hermans Wijffels' Innovatie Prijs in 2008 and the first prize of the MKB Innovatie Top 100 in 2009. Since 2009 he is working in the area of active assistive devices; devices which give additional support to care-givers to make sure their work does not become too physically demanding or to help persons in need to stay independent for longer periods of time or keep/extend their mobility. He contributed to an E-bike kit for [Flexaim](#), [Utopia Velo](#) and [Van Raam](#). The Twade Reevo Technology E-bike kit (for Flexaim) received an honorable mention for product design at the reddot design awards 2010 and received in 2010 a Golden Eurobike Award at the EUROBIKE international bike fair in Friedrichshafen and the eleventh prize of the MKB Innovatie Top 100 in 2011. He was also involved at [Indes](#) in designing the system architecture of a pushrim activated power-assist kit that can be added to a manual wheelchair.

Since 2011 he is involved in research projects in the area of medical devices and health care.

- [Projects](#)

His personal interests include travelling, outdoor sports (mountaineering, trekking, orientation runs), biking (race/MTB), swimming, photography, reading and Scouting.

## Employment

- **University Medical Center Utrecht**, Utrecht, NL, Since 2011
- [Indes New Business B.V.](#), Enschede, NL, 2009 - 2010
- [Agis Automatisering B.V.](#), Harmelen, NL, 2009 - 2009
- [TNO](#), Delft, NL, 1990 - 2009

## Education

- **Kennismaking met PC gebaseerd meten en besturen** (National Instruments, Woerden, NL, 25 Januari, 2011)
- **Hands-On Introductie tot NI LabVIEW grafisch programmeren** (National Instruments, Woerden, NL, 25 November, 2010)
- **Control Design made easy with Simulink** (MathWorks, Veldhoven, NL, 18 November, 2010)
- **Olie en Gas vanaf de bron** (Industriële Raad voor de Olie- en Gasindustrie, Europoort, NL, 9 October, 2008)
- **Embedded Systems Spring School on Wireless Sensor Networks** (ASCI Advanced School for Computing and Imaging, Noordwijk, NL, 1-4 April, 2008)
- **Masterclass Top-Technologen TNO I&T** (Mark Boerman Professional Development @ Work, Delft, NL, September-November, 2007)
- **Workshop Outdoorfotografie** (Jolanda Linschoten, Den Haag, NL, September 29, 2007)
- **Masterclass Bergsportfotografie** (Menno Boermans, Chamonix, FR, July 28 - August 4, 2007)
- **Microsoft SharePoint** (TNO, Delft, NL, 5 July 2007)
- **Goed Waarnemen, Juist Interpreteren, Effectief Communiceren** (Schouten & Nelissen Groep, Zandvoort, NL, January-May 2007)

- **Fotoclub-cursus fotografie** (Jørgen Atelier voor Fotografie, Dordrecht, NL, September 2005 - May 2006)
- **Workshop Natuurfotografie** (Natuurmonumenten, Oisterwijk, NL, 17 June 2005)
- **Programming with the Microsoft .NET Framework using Microsoft Visual C#.NET** (Twice, Delft, NL, 17-18 & 24-25 May 2005)
- **Fotoclub-cursus fotografie** (Jørgen Atelier voor Fotografie, Dordrecht, NL, September 2004 - May 2005)
- **Analog Devices SHARC & TigerSHARC workshop** (Silica, Breda, NL, 18 May 2004)
- **Adobe Photoshop training** (Software Cinema, Nieuwegein, NL, 19 April 2004)
- **Fotoclub-cursus fotografie** (Jørgen Atelier voor Fotografie, Dordrecht, NL, September 2003 - May 2004)
- **De Programmeertaal Java** (AT computing, Utrecht, NL, 6-11 March 2003)
- **Vervolg-cursus fotografie** (Jørgen Atelier voor Fotografie, Dordrecht, NL, January 2003 - May 2003)
- **Introductie Systems Engineering** (ADSE Consultancy & Engineering Services, Delft, NL, 28-29 November 2001)
- **Object Oriented Design** (Kenniscentrum CIBIT, Delft, NL, February 1999)
- **Embedding Windows CE Workshop** (Annasoft, Paris, FR, 7-8 October 1998)
- **Object Oriented Modeling with UML** (Kenniscentrum CIBIT, NL, Delft, February 1998)
- **Hands-on Visual C++ & Microsoft Foundation Classes** (PDS, Naarden, NL, 26 February - 1 March 1996)
- **De programmeertaal C++** (AT computing, Utrecht, NL, 10-13 January 1994)
- **Yourdon Structured Analysis for Real-Time Systems** (CGI, Utrecht, NL, 24-28 May 1993)
- **C en Unix** (AT computing, Utrecht, NL, 16-19 November 1992)
- **Gebruik van lokale en (inter)nationale netwerken** (TUE, Eindhoven, NL, 24-25 October 1991)
- **Statgraphics** (TUE, Eindhoven, NL, February 1990)
- **Desktop Publishing** (TUE, Eindhoven, NL, December 1989)
- **Master in Electrical Engineering** (TUE, Eindhoven, NL, September 1986 - February 1992)
- **Atheneum** (Scholengemeenschap De Gemini, Ridderkerk, NL, 1980-1986)

## Skills

- **Design techniques:** UML, Yourdon
- **Computer languages:** C, C++, nesC, Java, HTML, Matlab, Basic, various assembly languages (TMS320, 8051, 68k/CPU32)
- **Protocols and standards:** CAN, M3S, IEEE 802.3 (Ethernet), IEEE 802.11 (WLAN), IEEE 802.15.4 (WPAN), Zigbee, TinyOS, UWB, GPS, HTTP, RMI
- **Operating systems:** MS Windows, MS-DOS, TinyOS, Phar Lap, Cygwin, Linux, Real-Time Linux, VxWorks
- **Processors:** Intel 80x86/ARM/StrongARM, Intel/Philips 8x51, Motorola 68k/CPU32, Freescale MC1322x, Texas Instruments TMS320/MSP430, Analog Devices TigerSHARC/Blackfin
- **IDE's:** MS Visual Studio, IAR Embedded Workbench for ARM, Analog Devices VisualDSP++, Mathworks Matlab, Eclipse, NetBeans, Gnu, Tasking 8051
- **Software tools:** MS Office, MS Visio, Tamosoft CommView, Daintree SNA, MS Virtual PC, VMware
- **Hardware tools:** Personal computers, workstations, PC/104 & PC/104-Plus, PDA's, network sniffers, debuggers (JTAG/BDM), in-circuit emulators, ROM emulators, oscilloscopes, logic analyzers, localisation (GPS, WAAS, UWB)

## Patents

- **Real-time vehicle control using intelligent road infrastructure**, [WO 2010/068107](#) (12 December 2008)
- **Real-time vehicle tracking infrastructure**, [WO 2010/068106](#) (12 December 2008)
- **High accuracy data acquisition synchronization in wireless sensor networks**, [WO 2010/041935](#) (6 October 2008)

## Publications

- **The Implementation and Analysis of Low Power Scheme on a Wireless Sensor Node**, Trimananda, R & Nelisse, M.W.; Submitted to *International Conference on Data Engineering and Internet Technology*; Bali, ID, March 15-17 2011 [Paper in English]
- **Ideas on an end-of-pipe fresh water monitoring system**, Nelisse, M.W.; *INCAS3*, Assen, NL, May 12, 2010 [Presentation in English]
- **Digitale Fotografie 2, update & tips**, Nelisse, M.W.; *Jorgen*, Dordrecht, NL, May 24, 2006 [Presentation in Dutch]
- **Mag het een pixeltje meer zijn? Bijvoorbeeld 2.500.000.000**, Martin Nelisse & Jurgen den Hartog et al.; *Camera Magazine*, Jansz Media BV, Zeist, NL, Jaargang 19, nummer 6, 2005, p.56-58 [Publication in Dutch]
- **CoDrive, channels information streams in the car**, Nelisse, M.W.; *World of Transport, Infrastructure and Logistics 2004*, Rotterdam, NL, November 23, 2004 [Demonstration in Dutch]
- **Digitale Fotografie 1, achtergrond informatie & tips**, Nelisse, M.W.; *Kunstuitleen*, Papendrecht, NL, November 19, 2004 [Presentation in Dutch]
- **Design and Test of a communication based Advanced driver assistance System**, Kroon, J. & van Klaveren et al.; *Proceedings of the IEEE International Conference on Systems, Man and Cybernetics*, The Hague, NL, October 10-13, 2004 [Paper in English]
- **Networking Considerations for Acoustic Communication within Multi-Node Underwater Sensor Networks**, Nelisse, M.W.; *Proceedings of the 7th European Conference on Underwater Acoustics*, Delft, NL, July 5-8 2004, vol. 2, p. 1235-1242 [Paper and presentation in English]
- **Design and Test of a Cooperative Adaptive Cruise Control System**, de Bruin, D & Kroon, J. et al.; *Intelligent Vehicles Symposium*, Parma, IT, June 14-17, 2004 [Paper in English]
- **Digitale Fotografie 1, achtergrond informatie & tips**, Nelisse, M.W.; *Jorgen*, Dordrecht, NL, May 26, 2004 [Presentation in Dutch]
- **An Open Automotive Development Platform**, Nelisse, M.W.; *Proceedings of the 10th World Congress and Exhibition on Intelligent Transport Systems and Services*, Madrid, ESP, November 16-20 2003 [Paper in English]
- **CarTALK2000: Development of a Co-operative ADAS based on Vehicle-to-Vehicle Communication**, Morsink P. & Redouane Allouzi et al: *Proceedings of the 10th World Congress and Exhibition on Intelligent Transport Systems and Services*, Madrid, ESP, November 16-20 2003 [Paper in English]
- **Implementing Multiple Intelligent Services in an Intelligent Vehicle with a Safe Workload Aware HMI**, Zoutendijk A. & Marika Hoedemaker et al.; *Proceedings of the 10th World Congress and Exhibition on Intelligent Transport Systems and Services*, Madrid, ESP, November 16-20 2003 [Paper in English]
- **Integration strategies using a modular architecture for mobile robots in the rehabilitation field**, Nelisse, M.W.; *Society of Manufacturing Engineers*, Dearborn, MI, 2001 [Publication in English]
- **Ontwikkelen met CAN**, Nelisse, M.W.; *First CANned seminar: CAN in de Praktijk*, Eindhoven, NL, June 10, 1999 [Publication in Dutch]

- **CAN and Windows CE**, Nelisse, M.W.; *CAN Newsletter*, PZ Marketing, Nurnberg, GE, December 1998, p. 50-55 [Publication in English]
- **Revalidatie oplossingen met Windows CE**, Nelisse, M.W.; *Embedded Microsoft Windows CE seminar*, Utrecht, NL, November 19 1998 [Presentation in Dutch]
- **CAN and Windows CE, Using CAN within Windows CE - Using Windows CE for CAN**, Nelisse, M.W.; *5th international CAN Conference '98*, San Jose, USA, November 3-5 1998 [Publication and presentation in English]
- **Applying Windows CE to M3S - A Real Windows CE Control Application**, Nelisse, M.W.; *Proceedings of the Windows CE PC Developers Conference and Expo '98*, Paris, FRA, October 5-8 1998 [Publication and presentation in English]
- **Integration strategies using a modular architecture for mobile robots in the rehabilitation field**, Nelisse, M.W.; *Journal of Intelligent and Robotic Systems*; 1998, Vol 22, p. 181-190 [Publication in English]
- **ICAN Integrated Communication and control for All Needs**, Nelisse, M.W. & J.A. van Woerden; *Improving the Quality of Life for the European Citizen; Proceedings of the 3rd TIDE Congress*, Helsinki, FIN, June 23-25 1998, Assistive technology research series, vol. 4, p. 296-300 [Publication and presentation in English]
- **ISO 7176, Wheelchairs - Part 17: Serial interface for electric wheelchair controllers**, ISO/TC 173/SC 1/WG 7; *ISO 7176*, Barcelona, ESP, May 26 1998 [ISO International Standard (Committee version)]
- **Life M3S Demonstrations**, Nelisse, M.W.; *European Telematics, Advancing the Information Society*, Barcelona, ESP, February 4-7 1998 [Demonstration]
- **Betrouwbaarheid van Windows NT voor productie- en procesbesturing; Systeem definitie en betrouwbaarheid**, Nelisse, M.W.; *Benelux Industriedag 1997 FME-CWM*, Veldhoven, NL, June 18 1997 [Presentation in Dutch]
- **CAN in Rehabilitation**, Nelisse, M.W.; *CAN Newsletter*, PZ Marketing, Nurnberg, GE, June 1997, p. 28-31,52 [Publication in English]
- **Mobile robotics and MANUS**, Driessen, B.J.F. & J.A. van Woerden et al. *Mobile Robotics Technology for Health Care Services; Proceedings of the 1st MobiNet Symposium*; Athens, GR, May 15-16 1997, p. 115-119 [Publication and presentation in English]
- **A general-purpose integrated and modular architecture for the rehabilitation environment**, Nelisse, M.W. & G.R. Overboom, et al.; *Mobile Robotics Technology for Health Care Services; Proceedings of the 1st MobiNet Symposium*; Athens, GR, May 15-16 1997, p. 161-170 [Publication and presentation in English]
- **CAN Development Environment; An open approach for a CAN development environment**, Nelisse, M.W.; *3rd international CAN Conference '96*, Paris, FRA, October 1-2 1996, p. 14.12-14.19 [Publication and presentation in English]
- **M3S: A general-purpose integrated and modular architecture for the rehabilitation environment**, Nelisse, M.W.; *SPRINT-IMMeDIAtE Norwegian M3S seminar*, Oslo, N, March 17 1996 [Presentation in English]
- **M3S, integration protocol in revalidation environment**, van Woerden, J.A. & M.W. Nelisse et al.; *REHA 95*, Dusseldorf, D, Oct 26 1995 [Presentation in English]
- **Integration technology for integrated systems of assistive devices**, van Woerden, J.A. & M.W. Nelisse; *Proceedings of the 3rd ECART Congress*, Lisbon, P, October 10-13 1995, p. 238-240 [Publication and presentation in English]
- **M3S: A general-purpose integrated and modular architecture for the rehabilitation environment**, Nelisse, M.W.; *Proceedings of 2nd international CAN Conference '95*, London, UK, October 3-4 1995, p. 10.2-10.9 [Publication and presentation in English]
- **Integrated solutions for assistive devices**, van Woerden, J.A. & M.W. Nelisse; *The European Context for Assistive Technology; Proceedings of the 2nd TIDE Congress*, Paris, FRA, April 26-28 1995, Assistive technology research series, vol. 1, p. 387-392 [Publication and presentation in English]

- **CAN in M3S - een standaard interface voor revalidatie toepassingen**, Nelisse, M.W.; *TUE-CME veldbus contactgroep*, Eindhoven, NL, November 4 1994 [Presentation in Dutch]
- **M3S: A CAN System for Wheelchairs**, Nelisse, M.W.; *CAN Newsletter*, PZ Marketing, Nurnberg, GE, 1994/4, p. 26 [Publication in English]
- **M3S - An intelligent interface for the rehabilitation environment**, Nelisse, M.W.; *Tide, une journee a la valorisation de resultats de recherche en faveur des handicapes et des personnes agees*, Paris, FR, October 14 1994 [Presentation in English and French]
- **M3S - a standard communication architecture for rehabilitation applications**, van Woerden, J.A. & M.W. Nelisse et al.; *Computing and Control Engineering Journal*, IEE, London, UK, October 1994, p. 213-218 [Publication in English]
- **M3S - A general-purpose integrated and modular architecture for the rehabilitation environment**, Nelisse, M.W.; *Integrated Solutions in Rehabilitation Technology*, Barnsley, UK, May 25 1994 [Presentation in English]
- **Integratie van apparatuur voor revalidatie en medische toepassingen**, Nelisse, M.W.; *KMO Workshop*, Delft, NL, February 22 1994 [Presentation in Dutch]

## Conferences

- **Bits&Chips 2010 Embedded Systemen**, Eindhoven, NL, November 11, 2010
- **Innovatieproeftuin 2028**, Rotterdam, NL, December 3, 2008
- **Embedded Systems Conference, West 2008**, San Jose, CA, USA, April 15-17, 2008
- **Design Automation & Embedded Systems**, Eindhoven, NL, September 25, 2007
- **Draadloze Ad-Hoc Sensornetwerken voor research, telecom en industrie**, Utrecht, NL, May 24, 2007
- **IMEC's Annual Research Review Meeting 2006**, Leuven, Belgium, October 24, 2006
- **Embedded Systems Conference, West 2005**, San Francisco, CA, USA, March 6-10, 2005
- **7th European Conference on Underwater Acoustics**, Delft, NL, July 5-8 2004
- **Embedded Systems Conference, West 2004**, San Francisco, CA, USA, March 29 - April 1, 2004
- **10th World Congress & Exhibition on ITS 2003**, Madrid, ESP, November 16-20, 2003
- **Embedded Systems Conference, West 2003**, San Francisco, CA, USA, April 22-26, 2003
- **Themadag Industrieel Ethernet, de veldbus van de toekomst! Of?**, Eindhoven, NL, November 14, 2002
- **Workshop GPS - Soms zit het tegen**, Delft, NL, April 19, 2002
- **Embedded Systems Conference, West 2002**, San Francisco, CA, USA, March 12-16, 2002
- **8th international CAN Conference 2002**, Las Vegas, NV, USA, February 26-28 2002
- **Time-triggered Communication Workshop**, Raunheim, DE, March 15 2001
- **7th international CAN Conference 2000**, Amsterdam, NL, October 24-25 2000
- **Embedded Systems Conference, West 2000**, San Jose, CA, USA, Sept 24-28, 2000
- **Windows Hardware Engineering Conference WinHEC 2000**, New Orleans, LA, USA, April 25-27, 2000
- **Embedded Systems Conference, West 1999**, San Jose, CA, USA, Sept 26-30, 1999
- **Windows CE Developers Conference**, Denver, CO, USA, June 6-9, 1999
- **Embedded Microsoft Windows CE seminar**, Utrecht, NL, November 19 1998
- **5th international CAN Conference '98**, San Jose, USA, November 3-5 1998
- **Embedded Systems Conference, 1998**, San Jose, CA, USA, November 1-5 1998
- **Microsoft Benelux Developer Days '98**, Den Haag, NL, October 23, 1998
- **Windows CE PC Developers Conference and Expo '98**, Paris, FRA, October 5-8, 1998

- **Windows CE Fieldbus Seminar** (Microsoft, Munchen, D, 21 September 1998)
- **3rd TIDE Congress, Improving the Quality of Life for the European Citizen**, Helsinki, FIN, June 23-25 1998
- **European Telematics Conference & Exhibition**, Barcelona, ESP, February 4-7, 1998
- **PCI Plus Europe Developers' Conference and Expo '96**, Berlin, D, October 1-2 1997
- **4th international CAN Conference '97**, Berlin, D, October 1997
- **Benelux Industriedag 1996 FME-CWM**, Veldhoven, NL, June 18 1997
- **1st MobiNet Symposium, Mobile Robotics Technology for Health Care Services**; Athens, GR, May 15-16 1997
- **PCI Europe & Embedded Computing Conference '96**, Paris, FRA, October 1-2 1996
- **3rd international CAN Conference '96**, Paris, FRA, October 1-2 1996
- **SPRINT-IMMeDIate Norwegian M3S seminar**, Oslo, N, March 17 1996
- **REHA 95**, Dusseldorf, D, Oct 26 1995
- **3rd ECART Congress**, Lisbon, P, October 10-13 1995
- **SPRINT-IMMeDIate Nederlands-Vlaams M3S seminar**, Hoensbroek, NL, October 5 1995
- **2nd international CAN Conference '95**, London, UK, October 3-4 1995
- **VSN Landdag**, Amersfoort, NL, May 20, 1995
- **2nd TIDE Congress, The European Context for Assistive Technology**, Paris, FRA, April 26-28 1995
- **CAN Forum**, Utrecht, NL, March 13, 1995
- **Microsoft Visual C++ Seminar**, Hoofddorp, NL, January 20, 1995
- **TUE-CME veldbus contactgroep**, Eindhoven, NL, November 4 1994
- **TIDE, une journee a la valorisation de resultats de recherche en faveur des handicapes et des personnes agees**, Paris, FR, October 14 1994
- **Integrated Solutions in Rehabilitation Technology**, Barnsley, UK, May 25 1994
- **VSN Landdag**, Amersfoort, NL, May 7, 1994
- **CEBIT**, Hannover, D, March 14-19, 1994
- **KMO Workshop**, Delft, NL, February 22 1994
- **1st TIDE Congress, Rehabilitatio Technology Strategies for the European Union**, Brussels, BE, April 6-7 1993
- **IEEE Symposium on Clear Applications of Fuzzy Logic**, Delft, NL, October 17, 1991
- **Parallel Processing, Concepten, transputers, toepassingen en toekomst**, NL, May 29, 1990
- **Symposium Neurale Netwerken**, Delft, NL, May 15, 1990

## Projects

Projects in the area of 'Intelligent Sensor Networks':

- **FastFocus SensOor**, Wireless sensor network for human health monitoring, using IEEE 802.15.4 communication ([AGIS](#))
- **AGIS**, Wireless sensor network for cow health monitoring, using IEEE 802.15.4 communication (on site at [AGIS](#))
- **UWB**, Wireless sensor network for corrosion monitoring, using UWB communication ([TNO](#))
- **TISNET**, Wireless sensor network for road traffic monitoring, using IEEE 802.15.4 communication ([TNO](#))
- **Flow-NoFlow**, Wireless sensor network for multi-phase flow detection, using IEEE 802.15.4 communication ([Shell](#))
- **POWER**, Wireless sensor network for corrosion monitoring, using IEEE 802.15.4 communication ([TNO](#))

- **DACAPO**, Demonstration of Acoustic Communication for ADCP Read-Out ([Rijkswaterstaat](#))
- **ACME**, Acoustic Communication network for Monitoring of underwater Environment in coastal areas ([European Commission](#))
- **OCN-CCP/SCP**, Underwater data acquisition system ([OCN](#))
- **RADAC**, Sea wave measurement system ([Radac](#))
- **RWS-MFPS**, Multi-functional presentation system for water management ([Rijkswaterstaat](#))

Projects in the area of 'Automotive':

- **WILLWARN**, Wireless Local Danger Warning ([European Commission](#))
- **PALS-CoDrive**, Evaluation of demonstrator platform for intelligent transport systems ([TNO](#))
- **Wijzer op Weg**, Demonstrator platform for intelligent transport systems ([Rijkswaterstaat](#))
- **Co-Drive**, Demonstrator platform for intelligent transport systems ([TNO](#))
- **VEHIL**, A hardware in the loop intelligent vehicle simulator ([TNO](#))
- **CarTALK 2000**, Safe and comfortable driving based upon inter-vehicle communication ([European Commission](#))

Projects in the area of 'Aeronautics':

- **JSF**, Prognostics and health monitoring for airplanes (on-site at [Boeing](#))
- **BRITE/EURAM-ASANCA**, Active noise control for airplanes ([European Commission](#))
- **Anti-Noise**, Computer architecture design of a multi-channel active noise control system ([TNO](#))

Projects in the area of 'Oil & Gas':

- **UPM**, Ultra-sonic Particle Monitor ([Roxar](#))
- **IWIS**, Standardisation of in well fieldbus network ([Shell](#))

Projects in the area of 'Photography':

- **UFM-120**, Rail video-inspection system ([Eurailscout](#))
- **Tegelaar**, High-resolution digital camera observation system ([ADO](#))
- **GigaPixel**, World-record stitched digital photo of 2.5 GPixels ([TNO](#))

Projects in the area of 'Active Assistive Devices':

- **WheelDrive**, Pushrim activated power-assist kit that can be added to a manual wheelchair (Undisclosed)
- **Touch & Move**, Electric support to ride and manoeuvre a patient hoist ([JoyinCare](#))
- **PowerSupport**, Power-assist kit that can be added to a manual wheelchair ([Handicare](#))
- **EBike**, E-bike kit for bicycles ([Flexaim](#), [Utopia Velo](#) and [Van Raam](#))

Projects in the area of 'Rehabilitation':

- **AMOR**, Robotic manipulator ([European Commission](#))
- **BIOMED2-ComManus**, Robotic manipulator control system ([European Commission](#))
- **Bruls-VoIP**, Voice-over-IP based extension for ANC5000 system ([Bruls](#))
- **TMR-MOBINET**, Mobile Robotics Technology for Health Care research network ([European Commission](#))

- **TIDE-ICAN**, Integrated system solutions for the rehabilitation field ([European Commission](#))
- **Bruls-ANC5000**, Room monitoring system for rehabilitation clinics and homes for elderly people ([Bruls](#))
- **SPRINT-IMMeDIAtE Extension**, Integrated system solutions for the rehabilitation field ([European Commission](#))
- **Indes-HUKA**, Electrical wheelchair control system ([Indes](#))
- **TIDE-FOCUS**, Integrated system solutions for the rehabilitation field ([European Commission](#))
- **Nieuwe Schalm**, User evaluation of integrated wheelchair system (Nieuwe Schalm)
- **SPRINT-IMMeDIAtE**, Integrated system solutions for the rehabilitation field ([European Commission](#))
- **TIDE-M3S**, Integrated system solutions for the rehabilitation field ([European Commission](#))

Projects in different areas:

- **Research Workbench**, Component based workflow environment ([TNO](#))
- **OCE Phase B**, PC based digital scanner/printer/copier (on site at [OCE](#))
- **OCE Phase A**, PC based digital scanner/printer/copier (on site at [OCE](#))
- **Radiosity**, VLSI Radiosity Engine for Fast Realistic Image Synthesis ([TU Delft](#))

Projects I was involved in during my study:

- **DSP**, Evaluation of the development environment of DSP's ([TNO](#))
- **Packet Radio**, Realisation and analysis of packet radio connections ([TUE](#))
- **C Compiler**, Adaptation of the Small-C compiler for the C-processor ([TUE](#))
- **Large IC Design**, Design of a RSA based encryption chip ([TUE](#))
- **IC Design**, Design, manufacturing and test of a counter chip ([TUE](#))

Besides that I participated in the following committees:

- **CANned**, CAN promotional activities in the Benelux ([CANned](#))
- **7th international CAN Conference 2000**, Program Committee ([CiA](#))
- **ISO/TC173/SC1/WG7**, Technical working group on M3S standard ([ISO](#))