

**Curriculum Vitae Albertine Antoinette (Betty) van de Wetering**

1. PROPOSED POSITION	: Road Safety Expert				
2. NAME	: Albertine Antoinette (Betty) van de Wetering				
3. DATE OF BIRTH	: June 29, 1954				
4. NATIONALITY	: Dutch (The Netherlands)				
5. EDUCATION	: College of Advanced Technology, 1972-1977 Zwolle, The Netherlands, B.Sc. degree in Civil Engineering (Diploma)				
6. OTHER TRAINING	: PBNA Adult Professional Education Institute, The Netherlands, 2015, Safety and Health Management for Civil Works VCA-VOL (Diploma)				
	Quality Institute Road Safety Audit (KOVA), The Netherlands 2012, Independent Road Safety Auditor National Highways (Certificate, prolonged 2015)				
	Institute for Education in the Tourist Industry (IVOR), The Netherlands 2014, Practical Course Tour Management, training in leading groups under challenging travel conditions, communication and presentation; (Certificate , ANVR Tour Manager)				
	Scriptschool Foundation, The Netherlands 2009-2012, Screenplay writing, Professional story writing, elaboration of stories and scenarios; plot and psychology (Certificate)				
	NIMO Institute for Management Development, The Netherlands 2005, International Senior Project Management (Certificate)				
	Management and Professional Development Training, Nijenrode University, The Netherlands 2001, Improved management performance in project preparation and implementation				
	Foundation for Post-Academic Education (PAO), The Netherlands 1992, Post-academic training in design of rural and urban roads and junctions, developments in geometrical and environmental safe road design, related to functions of roads and its users				
7. LANGUAGE & DEGREE OF PROFICIENCY	:	Language	Reading	Speaking	Writing
		English	1	1	1
		French	1	1	1
		German	1	2	2
		Dutch	1	1	1
8. MEMBERSHIP IN PROFESSIONAL SOCIETIES	: Member of VIO: Dutch Association of Infrastructure Designers Topvrouwen in Bouw en Infra (Dutch Association for Career Women in Construction and Infrastructure)				

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9. COUNTRIES OF WORK EXPERIENCE	: Sub-Saharan Africa: Ethiopia, Eritrea, Uganda, Tanzania, Burundi, Guinea, North Africa and Middle East: United Arab Emirates, Saudi Arabia, Jordan, Tunisia, Turkey, Morocco Europe: The Netherlands, Bulgaria, Romania, Poland, Latvia, Lithuania Asia: India
10. EMPLOYMENT RECORD	:
FROM: 2016	TO: present
EMPLOYER	: International Individual Consultant; owner of Betty's Travels, reg.no. Chamber of Commerce: NL65019628
POSITION HELD AND DESCRIPTION OF DUTIES	: Roads and Traffic Consultant, Certified Road Safety Auditor – Consultancy for road administrations, consultants and contractors worldwide, road safety audits and inspections, crash investigations; audits are conducted for preliminary design, detailed design, pre-opening and after opening (operational) stages
FROM: 2012	TO: 2016
EMPLOYER	: Royal HaskoningDHV, The Netherlands
POSITION HELD AND DESCRIPTION OF DUTIES	: Specialist Roads and Traffic, Certified Road Safety Auditor – Consultancy for national highway network safety, occupational health and safety, regional and municipal roads
FROM: 2009	TO: 2012
EMPLOYER	: DHV B.V. , The Netherlands
POSITION HELD AND DESCRIPTION OF DUTIES	: Safe Road Design Specialist Specialist Transportation Resident Engineer Project Manager/Team Leader Transportation Projects
FROM: 1992	TO: 2008
EMPLOYER	: DHV Environment and Infrastructure, The Netherlands (operating abroad under the branch name DHV Consultants)
POSITION HELD AND DESCRIPTION OF DUTIES	: Safe Road Design Specialist Project Manager/Team Leader Transportation Projects Head of Road Engineering Department Road Design Manager
FROM: 1978	TO: 1992
EMPLOYER	: DHV Consulting Engineers (DHV Consultants)
POSITION HELD AND DESCRIPTION OF DUTIES	: Road Design Manager Professional Advisor Rural Development Consultant Road Design Engineer

## 11 KEY QUALIFICATIONS

1. Professional Civil Engineer (B BE, 1977) . Road Safety Engineer (over 10 years),
2. Certified Road Safety Auditor (Quality Institute Road Safety Audit – KOVA, The Netherlands)
3. Over 15 years' experience in road safety engineering, road safety audits, design and construction of road safety countermeasures, crash investigation/collisions analysis and safe system approach
4. General working experience in Europe, Africa and the Middle East
5. Expertise in the evaluation of incident impact by standardized road safety risk assessment programmes
6. Over ten years' experience working in developing countries and emerging economies
7. Over 100 road safety assessments, audits and inspections in the past six years for all kinds of transport studies, rural and urban road infrastructure, highways and regional roads
8. Team leader and team member in multi-disciplinary projects in sub-Saharan Africa (both East and West-Africa); working experience on eight road projects in Africa (study, design and construction)
9. Experienced in community sensitisation and awareness campaigns preparation and implementation
10. Esteemed trainer of students from developing countries for capacity building in road safety audits and inspections
11. Additional education in writing and communication
12. In-depth know-how of international directives and manuals for road safety auditing, such as the European Directive 2008/96/EC of 19 November 2008 on road infrastructure safety management, Road Safety Manual for Africa New Roads and Schemes, Road Safety Audit of the African Development Bank, Asian Development Bank's Road Safety Guidelines, World Bank Sustainable Safe Road Design Manual, New Road Safety Manual (PIARC) and DMRB HD 19/15 Road Safety Manual
13. Member of VIO (Association of Dutch Road Infrastructure Designers)
14. Fluent in written and spoken English and French

## 12. DETAILED TASKS ASSIGNED

### **Main tasks and duties:**

1. Undertake road safety audits in preliminary and final design stages, as well as construction stages, before and after opening to traffic on assignment by road administrations, consultancy firms and works contractors
2. Provide consultancy for design and construction of specific road safety solutions in urban and rural environment and for specific transport modes (non-motorized traffic, public transport, airport access roads)
3. Adhere to the procedures determined by international road safety audit directives (European Directive 2008/96, Road Safety Manual for Africa New Roads and Schemes, Road Safety Audit of the African Development Bank, Department of Roads and Bridges HD19/15 (UK) and others.
4. Provide training in road safety principles to technical staff of clients, prepare modules and manuals for education purposes. Also contribute to awareness campaigns for road users.
5. Collect, evaluate and analyze road incident data and advise clients on road safety improvement measures to eliminate black spots and other hazardous road sections
6. Organize road safety awareness campaigns for road users, local residents and specific target groups, including school children
7. Assist road administrations in drafting road safety manuals, codes of practice and directives for road safety management systems

## 13. WORK UNDERTAKEN THAT BEST ILLUSTRATES CAPABILITY TO HANDLE TASKS ASSIGNED.

Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
Traffic Safety Investigations on A2 Highway Section Kerensheide – Kruisdonk (13 km)	The Netherlands	Ministry of Infrastructure and Environment National Highway Authority, Rijkswaterstaat, Southern Netherlands Dept.	2018	Road Safety Specialist commissioned by Royal HaskoningDHV	Carry out traffic safety inspection on the A2 along all possible routes between Kerensheide and Kruisdonk (main and parallel tracks, entrances and exits), both in daylight and at dark. The results of this inspection are summarized, fed back in a note to the project management. The findings of the inspection are placed next to the executed design. The main goal is to verify the geometry. The inspection results are integrated in an accident analysis and compared with traffic data, together with human factors observations to arrive at final conclusions as to the causes of accident increases in recent years	two months
Upgrading of N395 regional road Hilvarenbeek - Oirschot	The Netherlands	Province of Noord-Brabant	2018	Road Safety Auditor in association with De Baan Verkeersadvies	Undertake the audit phase 1 for the regional road N396 Hilvarenbeek – Oirschot. This single carriageway road passes through a rural environment with may trees flanking both sides. Three villages are crossed by this road and non-motorized traffic is typical. Since the client intends to carry out major maintenance in due course, measures to improve the road safety are proposed to be included both in the rural and urban sections of this 14 km long road section. An extensive audit has been performed on the preliminary design with a multitude of findings and recommendations. The audit results were presented by the audit team in a report and explained during a session with the design consultant and client's technical management.	one week
Upgrading of N65 Regional Highway section Vught – Haaren (11 km)	The Netherlands	Province of Noord-Brabant	2018	Road Safety Auditor in association with De Baan Verkeersadvies	Undertake the audit phase 1 for the regional road N65 's-Hertogenbosch-Tilburg. This highway is a short trunk road with 2x2 lanes but also with a number of heavily trafficked at grade intersections. The road capacities are poor and the road is difficult to cross for non-motorized traffic. The road regularly forms the backdrop for traffic accidents. Two alternative preliminary designs of the upgraded N65 are audited and two separate audit reports are drafted and submitted. The audit not only concerns the major carriageways of the N65 but also zooms in to the local road network in urban agglomerations (Vught and Haaren) connecting and/or crossing the N65.	two weeks
Conversion of three interchanges with Highway A59	The Netherlands	Antea Group, funding by Ministry of Infrastructure and Environment National Highway Authority, Rijkswaterstaat Region South Netherlands	2018	Road Safety Auditor in association with Royal HaskoningDHV	Undertake road safety audit on the preliminary design of three interchanges with the highway. The design concerns the upgrading of existing slip roads and connecting local roads. An audit report with findings, road safety issues risk assessment and recommendations was prepared and submitted to the client.	1 week
Peripheral Highway Groningen	The Netherlands	Contractor Herepoort JV	2018	Road Safety Auditor	Undertake pre-opening road safety audit for temporary road (by-pass 1.65 km) for two-lane carriageway:	1 week

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Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
		Funding: Dutch Government, Province and Municipality of Groningen		in association with De Baan Verkeersadvies	<ul style="list-style-type: none"> <li>Carry out on-site audit inspection of works during daylight and night conditions</li> <li>Confer with the contractor on the road safety findings, risks and optional solutions</li> <li>Prepare the road safety audit report</li> </ul>	
Temporary Connection Suurhoff Bridge	The Netherlands	Ministry of Infrastructure and Environment National Highway Authority, Rijkswaterstaat Major Projects and Maintenance Dept.	2018	Road Safety Auditor (Team Leader)	<p>Provide a road safety audit report for highway A15 temporary connection:</p> <ul style="list-style-type: none"> <li>Carry out road safety audit on preliminary design of temporary bridge in highway A15</li> <li>Include audit of design for two consecutive connections with local road network</li> <li>Assess geometric design with specific attention to heavy duty transport in industrialized area (Rotterdam conurbation/port area)</li> </ul>	one week
Detailed Planning and Implementation of the Institutional Changes set out in the Zanzibar Transport Master Plan	Tanzania (Zanzibar)	Ministry of Infrastructure, Communication and Transportation of the Government of Zanzibar	2018	Road Transport Safety Specialist engaged by Intercontinental Consultants and Technocrats Pvt. Ltd.	<p>Draft a toolkit in the form of a Road Transport Code of Practice, as follows:</p> <ul style="list-style-type: none"> <li>study current laws and regulations regarding the institutional framework pertaining to road safety</li> <li>collect and select information from various sources identifying institutional and regulatory gaps to be filled by the code of practice</li> <li>develop and assist in the adoption of the road transport safety code of practice</li> <li>draft the text for the Road Transport Safety Code of Practice for the Zanzibar Road Transport Safety Authority</li> </ul>	one week
Training Course Road Safety Auditors Certification	The Netherlands	Quality Institute Road Safety Audit (KOVA)  Funding: Dutch Government	2018	Road Safety Training Specialist engaged by DTV Consultants	<p>As a trainer contribute to capacity building of certified road safety auditors, as follows:</p> <ul style="list-style-type: none"> <li>prepare road safety training module and presentation materials including case study materials</li> <li>conduct training to candidate road safety auditors in the field of audit preparation, audit implementation and audit report writing</li> <li>candidates will receive the national road safety auditors' certificate under the surveillance of the Dutch Governments' Quality Institute Road Safety Audit (KOVA)</li> </ul>	4 days
Consultancy Services for Improvement of Road Safety, Capacity Building and Data Collection for Dar es Salaam Bus Rapid Transit System Project – Phase 2	Tanzania	Tanzania National Roads Authority (TANROADS)  Funding: African Development Bank	2018	Road Safety Engineer (Team Leader) engaged by Intercontinental Consultants and Technocrats Pvt. Ltd.	<p>Conduct baseline accident data collection, perform road safety audits and prepare/carry out awareness campaigns, as follows:</p> <ul style="list-style-type: none"> <li>undertake baseline accident data collection relating to road safety situation along the project road and conduct accident analysis on existing project roads</li> <li>conduct detailed crash investigations for all road sections and junctions, aimed at the establishment of accident factor grids, collision diagrams and accident patterns</li> <li>identify high crash hazard locations and sections for further investigation and design improvement</li> </ul>	3 months

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Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
					<ul style="list-style-type: none"> <li>conduct road safety audits at pre-construction, in-construction and post-construction stages of project implementation to identify potential safety concerns on the proposed scheme</li> <li>conduct the Consultant's team consisting of highway engineer (audit team member), enforcement officer, awareness campaign sociologist), traffic engineer and Autocad draftsman and prepare all reports, including crash investigation report, awareness campaign report and road safety audit reports</li> <li>recommend safety measures to eliminate or minimize potential problems, based on a comparison of the design with the actual crash data for black spots and high accident risk road sections</li> <li>build capacity to 12 TANROADS staff in road safety matters during the planning, design and construction stages of the project road.</li> <li>raise awareness to the communities, schools and other road safety affected target groups on safe use of roads by conducting road safety awareness campaigns to the people living in eighteen (18) Street Communities along the project road.</li> <li>attended iRAP workshop, organized by the Worldbank for practical applications to be considered for the project</li> <li>currently project is in the design stage and duties will continue for three years total (time spent after completion: 12 months)</li> </ul>	
Delft Road Safety Course 2017	The Netherlands	Technical University of Delft	2017	Lecturer	<p>As a trainer contribute to capacity building of international students in road safety audits and inspections, as follows:</p> <ul style="list-style-type: none"> <li>conduct the module "Road safety audits and inspections" as part of a 14-days road safety-focused workshop with participants are road administration staff from Africa, Asia, South America and Europe</li> <li>make reference to the various international road safety audit directives and manuals, such as EC Directive 2008/96, Road Safety Manual for Africa New Roads and Schemes, Road Safety Audit (African Development Bank), Road Safety Guidelines for the Asian and Pacific Region (Asian Development Bank)</li> </ul>	One day
Construction and Rehabilitation Works for Road RN18-Phase I, section Nyakararo – Mwaro – Kibumbu (30 km)	Burundi	Office des Routes within the Ministry of Transport, Public Works and Equipment  Funding: African Development Bank	2017	Road Safety Auditor/Team Leader	<p>Undertake detailed road safety audits for design, pre-opening and operation stage in compliance with the three stages of the Road Safety Manual for Africa New Roads and Schemes, Road Safety Audit of the African Development Bank, as follows:</p> <ul style="list-style-type: none"> <li>review of the detailed design drawings and the implementation reports as well as the constructed works before opening to the traffic</li> <li>monitor contractors' statements of the occupational health and safety conditions</li> <li>in-depth assessment of the contractor's plans against the BS OHSAS 18001 standards to comply with contract requirements</li> </ul>	2 months

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Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
					<ul style="list-style-type: none"> <li>road safety audits at pre-construction, in-construction and post-construction stages (three separate audits)</li> <li>conduct on-site road inspections to investigate possible crash/collision hazards both in rural and urban environment and advise the client on possible design improvements to avoid crashes on the reconstructed road</li> <li>prepare and submit audit reports for clients' appraisal and follow-up at the end of all three audit stages</li> <li>prepare and conduct road-safety focused workshop for Ministry of Works' staff and other stakeholders (a.o. consultants and representative of African Development Bank)</li> </ul>	
Peripheral Highway Groningen	The Netherlands	Contractor Herepoort JV  Funding: Dutch Government, Province and Municipality of Groningen	2017	Road Safety Auditor engaged by Royal HaskoningDHV	Undertake detailed road safety assessments and audits for highway and urban road network (residential roads), as well as temporary works, as follows: <ul style="list-style-type: none"> <li>carry out road safety assessments and pre-construction audits for preliminary design and final design of temporary works, open tunnel tray passage and connecting residential road network, including bus rapid transport lanes</li> <li>review of detailed design drawings and reports and verify the road safety requirements</li> <li>carry out road safety audit on completed temporary works consisting of deviations for the main carriageway of the highway</li> </ul>	two months intermittent
Highways A1/A28 and Hoewelaken split level interchange	The Netherlands	Contractor Combinatie A1/A28  Funding: Dutch Government	2017	Road Safety Auditor engaged by Royal HaskoningDHV	Undertake detailed road safety audit of preliminary design as follows: <ul style="list-style-type: none"> <li>carry out audit for– preliminary design of complex road systems, slip roads including local access road network;</li> <li>contribute to the road safety audit report including statements on road safety hazards and risks</li> </ul>	0,25 month
Highway A2 passage through the city of Maastricht reconstruction by means of a stacked tunnel	The Netherlands	National Highway Authority Rijkswaterstaat ZN  Funding: Dutch Government, Province of Limburg, City of Maastricht	2017	Road Safety Auditor engaged by Royal HaskoningDHV	Undertake detailed road safety audit in pre-opening stage, as follows: <ul style="list-style-type: none"> <li>assessment of access roads construction (pre-opening audit)</li> <li>ensure that proposed road safety measures have been appropriately implemented</li> <li>confer with road safety psychologist on anticipated road users' conduct</li> <li>prepare and submit the road safety audit report including recommendations for remedial measures</li> </ul>	0,25 month
Rotterdamsebaan, urban access road	The Netherlands	Contractor BAM	2017	Road Safety Auditor engaged by Royal HaskoningDHV	Undertake detailed road safety audits of final design and pre-opening stage, as follows: <ul style="list-style-type: none"> <li>audit for preliminary design of major access road to the center of The Hague, including access to land tunnel; road safety audit</li> <li>audit for in-construction road safety measures and post-construction stages to ensure that the completed road meets the applicable road safety standards</li> </ul>	0,5 month

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Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
Regional Road N211	The Netherlands	Province of South-Holland road administration (also funding)	2017	Road Safety Auditor engaged by Royal HaskoningDHV	Undertake road safety assessment of regional road reconstruction design, as follows: <ul style="list-style-type: none"> <li>assessment of two alternative preliminary design with and without split level junctions</li> <li>review of detailed design drawings to ensure that proposed road safety measures have been incorporated</li> <li>confer with design consultant and client on remedial measures to be included in the works' contract</li> </ul>	0,5 month
RijnlandRoute A4 and A44 interchanges and 2 km land tunnel in regional roads N206 and N434	The Netherlands	Contractor COMOL5 JV  Funding: Dutch Government (Ministry of Infrastructure and Water Management, Rijkswaterstaat Major Projects and Maintenance)	2017 - 2018	Road Safety Auditor/ Audit Team Leader	Conduct road safety assessments and audits in preliminary and final design stages, including temporary roads during construction, as follows: <ul style="list-style-type: none"> <li>conduct road safety assessment and preliminary design audit</li> <li>provide recommendations on remedial measures to be incorporated in the detailed design</li> <li>as a team leader, conduct the audit team; so far three road safety audits have been carried out</li> <li>review detailed design of temporary and permanent roads design (final design audit) and ensure that road safety requirements have been appropriately incorporated</li> <li>evaluate and assess the design of a diverging diamond interchange (DDI) as a temporary solution for the diversion of the regional road N206 and the interchange with highway A44</li> <li>ensure that the contractor's plans comply with the road safety requirements for traffic management including road signing</li> <li>prepare and submit road safety audit report for implementation of recommended road safety improvement measures</li> </ul>	2 months intermittent
Inspection of current traffic safety conditions and infrastructural deficiencies of A325 Regional Highway	The Netherlands	Province of Gelderland Public Works Department  Funding: Province of Gelderland	2016	Road Safety Engineer/Team Leader	Provide a detailed road safety inspection report of the existing dual carriageway highway, as follows: <ul style="list-style-type: none"> <li>carry out a detailed inspection of the highway and its interchanges to comply with the applicable road design standards</li> <li>conduct the inspection team</li> <li>asses the speed control system in comparison to the applicable road design standards and the traffic demand</li> <li>draft the detailed road safety inspection report</li> <li>recommend subsequent remedial actions for potential road safety hazards</li> </ul>	0,5 month
Rehabilitation Works for Road RN13-Phase1, section : Makebuko-Butaganzwa (22km)	Burundi	Office des Routes within the Ministry of Transport, Public Works and Equipment  Funding: African Development Bank	2016-2017	Technical and Road Safety Auditor/ Team Leader	Undertake technical audit as well as detailed road safety audits for design, pre-opening and operation stage in compliance with the three stages of the Road Safety Manual for Africa New Roads and Schemes, Road Safety Audit of the African Development Bank, as follows: <ul style="list-style-type: none"> <li>technical review of design, technical specifications and bidding documents as well as project implementation procedures, budget spending and cost effectiveness of the project, including economic evaluation</li> </ul>	2 months



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Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
					<ul style="list-style-type: none"> <li>evaluate the potential for road safety and the performance of the road for safety of the road users through investigation of possible crash/collision hazards</li> <li>conduct road safety review of contractors' method statements and carry out audits on the preliminary and detailed design and the constructed road before opening to the users</li> <li>help the client to understand how the road affects by itself the driver's behaviour</li> <li>submit an explicit and illustrated report to show the shortcomings and develop recommendations for counter measures, including improved guidelines and training</li> </ul>	
MENA Region: Road Safety Action Programme	Tunisia, Jordan and Morocco	European Investment Bank (also funding)	2016	Senior Non-Key Certified Road Safety Audit Expert engaged by NTU International Consultants	<p>As a trainer contribute to capacity building in road safety audits and inspections, as follows:</p> <ul style="list-style-type: none"> <li>prepare and carry out training workshops for representatives from public and private stakeholders in road projects (about 20 professionals per country, both male and female, aged between 20 and 60 years), from ministry of road infrastructure and other national/regional road administrations, consultancy firms and technical universities/colleges</li> <li>conduct training in road safety inspections and audits of design work for road improvement projects as well as adaptation of road design standards to comply with road safety requirements.</li> <li>training also comprises application of road safety inspection and auditing, including design and construction of road safety countermeasures, crash investigations/collisions analysis and safe system approach on specific pilot projects.</li> </ul>	2 months intermittent
Planning study for the A1 Apeldoorn – Azelo 60 kms long highway extension scheme	The Netherlands	Roads and Waterways Directorate Eastern, Ministry for the Environment and Infrastructure Funding: Dutch Government	2015 - 2017	Integral Safety Consultant engaged by Royal HaskoningDHV	<p>Undertake integral safety study for highway extension design project, as follows:</p> <ul style="list-style-type: none"> <li>development of an action plan for the module Integrated Road Safety Plan</li> <li>development of procedures for the introduction and establishment of safety measures during construction and operation of the highway.</li> <li>preparation of an Integrated Safety Management Plan,</li> <li>organisation and implementation of Risk Assessment Sessions</li> <li>determine the risks for all safety issues</li> <li>decide on appropriate mitigating or preventive measures.</li> </ul>	3 months intermittent
Shared Space Area of multi-purpose property development	The Netherlands	Municipality of Noordwijk (also funding)	2015	Urban Traffic Safety Consultant employed by Royal HaskoningDHV	<p>Undertake safety inspection and advise the client, as follows:</p> <ul style="list-style-type: none"> <li>identify the effects on road safety of the design of the car park and the public space (shops, offices, residential area)</li> <li>investigate and analyze possible non-motorized and motorized traffic collision hazards, especially those with heavy duty delivery vehicles</li> <li>assess the proposed design of public area is provided as Shared Space</li> </ul>	0,5 months

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Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
					<ul style="list-style-type: none"> <li>investigate the safety and the needs of the different kinds of road users</li> <li>report to the Municipality on safety improvements</li> </ul>	
Major maintenance of pavements on the A28 and A50 highways	The Netherlands	Gebr. Van der Lee Contracting Company  Funding: Dutch Government	2015	Health and Safety Consultant employed by Royal HaskoningDHV	Undertake inspection of the contractor's health and safety procedures and advise on measures to improve on-site safety conditions, as follows: <ul style="list-style-type: none"> <li>review contractors' procedures for improvement of health and safety conditions during road rehabilitation works to ensure that the contractor complies with his contract requirements for traffic management (including road signing).</li> <li>enable the contractor to improve his processes in the safe conduct of road projects, with the development of systems for the step-by-step control of the traffic management processes.</li> <li>develop method statements to incorporate road safety concerns both for road users (traffic measures) as well as for the safety and health of workers in the work environment (on site);</li> <li>on-site safety inspection and monitoring of traffic management and road safety measures implementation</li> <li>sensitization through training workshops of Contractor's staff on health and safety procedures (a.o. during so-called toolbox-meetings).</li> </ul>	3 months
Design of the intersection of King Abdul Aziz Road with Prince Mohammed Bin Abdul Aziz Road (Tahliya Road) and the intersection of King Abdul Aziz Road with both Al Rowdah Street and North Jeddah Corniche Road	Jeddah, Kingdom of Saudi Arabia	Amana Jeddah Municipality (also funding)	2014	Design controller and reviewer of road design quality levels employed by Royal HaskoningDHV	Provide specific road design and road safety advice to the design team, as follows: <ul style="list-style-type: none"> <li>conduct review of preliminary and final design and tender documents for this complicated infrastructural project.</li> <li>improve the safety quality level of the road design including structures, drainage and pavement design.</li> <li>provide on-the-job instructions to design staff on safe road design</li> </ul> <p>The design is prepared by Royal HaskoningDHV branch office in India. Part of the review work and the assessment is executed at this location. I was stationed in Delhi, India and responsible for the coordination between the design team in Delhi and the project management in the Netherlands</p>	1 month
Design study for reconstruction of Ring Road for Utrecht conurbation (highways A12, A27 and A28)	The Netherlands	Roads and Waterways Directorate Central within the Ministry of Land and Maritime Transport  Funding: Dutch Government	2013 - 2015	Expert Road Safety employed by Royal HaskoningDHV	Undertake road safety assessment of engineering solutions and advise the design team as follows: <ul style="list-style-type: none"> <li>assess proposed design solutions on safety aspects</li> <li>conduct road safety reviews and audits of the road in relation to the physical environment, with the anticipated driver's behaviour as the main criterion</li> <li>verify whether designers work along the geometrical design standards and guidelines,</li> <li>ensure the completed project road meets appropriate internationally-accepted road safety standards,</li> <li>provide appropriate reports for each of these audits</li> </ul>	3 years (appr. one day per week)

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Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
					<ul style="list-style-type: none"> <li>contribute to the road safety chapter in the project's design note</li> </ul>	
Master plan II and conceptual design Al Sharq with West Bay and the Cultural City Road Link	Doha, Qatar	Calatrava Mideast LLC Architects & Engineers  Funding: Government of Qatar	2014	Road Safety Auditor (Audit Leader) employed by Royal HaskoningDHV	Undertake road safety audits to compare two alternative solutions, as follows: <ul style="list-style-type: none"> <li>assess two alternative concept designs for a junction in the West Bay Approach - Road Safety Audit Stage 1</li> <li>complete the Road Safety Audit for the West Bay Approach in accordance with the guidance provided in the road safety design standard HD19</li> <li>advise the Royal HaskoningDHV design team on the best safe solution</li> </ul>	one week
Highway A15 Extension Works (37 km)	Rotterdam area, The Netherlands	Joint Venture ALanes A15 Highway (D&C Contractor)  Funding: Dutch Government	2013 - 2016	Road Safety Auditor (Team Leader/Team Member) employed by Royal HaskoningDHV	Undertake road safety audits for complex highway project in design and construction phases for the final situation as well as for temporary works, as follows: <ul style="list-style-type: none"> <li>conduct road safety audits at pre-construction, in-construction and post-construction stages to ensure the completed project road meets appropriate internationally-accepted road safety standards</li> <li>provide appropriate reports for each of these audits with recommendations directing the contractor to implement such additional works as may be necessary to ensure the completed road meets appropriate internationally-accepted road safety standards</li> <li>ensure that the contractor complies with contract requirements for traffic management, including road signing through assessment of signage and markings in design and construction phase</li> <li>over 60 audits are performed at pre-construction, in-construction and post-construction stages on this 37 km long highway section, including three major interchanges (with A4, A29 and A16 highways)</li> </ul>	three years (appr. four days per audit)
Highways and other National Roads (N261, A12, A76, A67, A73 A59, A6, A50, N61, A7/A8 and A2) as well as Avantis Roundabout	The Netherlands	Various: Regional Directorates of the Department of Public Works, Contractors and Consultancy Firms  Funding: Dutch Government	2012 - 2016	Road Safety Auditor (Team Leader/Team Member) employed by Royal HaskoningDHV	Undertake road safety inspections, assessments and audits on various highways, as follows: <ul style="list-style-type: none"> <li>road safety audits for designed and constructed highway projects</li> <li>audits performed concern all four stages (preliminary design, pre-construction, in-construction and post-construction/after-opening)</li> <li>include recommendations on remedial measures and other actions to alleviate road safety concerns</li> <li>draft, edit and submit appropriate reports for each of over 80 fully completed audits that have been executed for a multitude of national, regional and municipal roads, including interchanges and roundabouts</li> <li>audits are carried out in line with the Dutch Road Safety Audit Regulations, derived from the European Directive on Road Safety Road infrastructure (November 2008). The Dutch Road Safety Audit Regulations document is equivalent to the British HD19/15 and therefore include recommendations to implement additional works necessary to ensure the completed roads meet appropriate road safety standards</li> </ul>	four years (appr. four days per audit)

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Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
Study accident risks at taper exits and entries at highway main carriageways	The Netherlands	Regional Services Department of Public Works, Department of Road Safety of the Transport and Navigation Centre of the Ministry for Infrastructure and Environment  Funding: Dutch Government	2012 - 2013	Road Safety Expert employed by Royal HaskoningDHV	Examine the road accident risks at taper exits and entries and recommend on the design, as follows: <ul style="list-style-type: none"> <li>Literature study of reports on the subject matter</li> <li>Crash investigations on existing tapers: types, locations and numbers of accidents and possible causes</li> <li>Determine a possible relation between the taper design and the crashes found in the accident database</li> <li>Advise the client on the suitability and the safety of tapers for highway design</li> </ul>	one year (intermittent)
Highway A7/A8 lateral extension with express lanes, including improvement of the interchange  Rijnland Route Integration of new constructed regional road in local and national road network, including two interchanges and a subgrade, open tunnel section  Highway A4 Delft – Schiedam: Highway extension with land tunnel section including specific cross section jeopardies	The Netherlands	Regional Services Department of Public Works, Department of Road Safety of the Transport and Navigation Centre of the Ministry for Infrastructure and Environment  Funding: Dutch Government	2012 - 2014	Road Safety Expert employed by Royal HaskoningDHV	Recommend safety improvements of the designs, based on the safe system approach, focusing on the position of the road user in relation to the road infrastructure, as follows: <ul style="list-style-type: none"> <li>participate in the design team meetings as an advisor on road safety issues</li> <li>assist the Team Leader with advice on reconnaissance, planning and realization of road safety for various projects in the provinces of North and South Holland</li> <li>address the safety issues covering the entire process in these projects</li> <li>review detailed design documents to ensure that the road safety requirements have been properly addressed and incorporated</li> <li>verify that road safety assessment principles are properly anchored within the project: traffic impact assessment, project-specific assessment and road safety in road design plans and reporting in design notes</li> <li>participate in design meetings with road project management team including designers, environmentalists, economists and other experts to ensure that the road safety component is sufficiently incorporated in the design and construction plans</li> <li>contribute with recommendations for innovative solutions to the safety improvements of black spots and high risk sections</li> </ul>	three years (appr. one day per week)
Construction of the Non- Motorized Traffic Tunnel underneath Amsterdam Central Station	The Netherlands	ProRail (Dutch Railways Management Corporation) – also funding	2011 - 2012	Assistant to the Chief Resident Engineer in all matters related to project implementation,	Assist the client's Chief Resident Engineer, as follows: <ul style="list-style-type: none"> <li>direct advisors and assessors within the Engineer's team</li> <li>monitor contractors' method statements and supervise the contractor's work</li> <li>ensure that the contractor complies with the contract requirements for each part of the works to ensure that public safety concerns and remedial measures have been incorporated</li> </ul>	six months

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Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
				monitoring and reporting employed by DHV B.V.	<ul style="list-style-type: none"> <li>interpret, explain and adjust the works' contract in consultation with the Engineer</li> <li>organize and attend formal project meetings</li> <li>prepare project progress reports and correspondence with contractor, client and third parties on behalf of the Engineer</li> </ul>	
Prepare guidelines to implement the Road Safety Audit in line with the European Guideline for Traffic Safety (2008/96/EG of November 19, 2008);	The Netherlands	Road traffic and Maritime Department of the Dutch Ministry of Works  Funding: Dutch Government	2010 2015	Road Safety Expert employed by DHV B.V.	<p>Contribute to the development of a formal practical road safety guide, as follows</p> <ul style="list-style-type: none"> <li>integration of the road safety audit procedures in the work processes of the Ministry in line with the national road safety policy development and implementation plan</li> <li>comply with the quality assurance system within the regional departments of the Ministry</li> <li>apply thorough knowledge of the Ministry's organization and competences of regional departments in the field of road safety as well as current procedures</li> <li>produce the road safety guideline as a manual for the implementation and execution of road safety audits in the Netherlands</li> <li>recommend improvements for the update of the road safety audit guide (2015), based on experiences with road safety assessment and auditing in the past five years</li> </ul>	three months (2010) one month (2015)
Upgrading of Dirab Road (13 km long arterial road in the city of Riyadh	Kingdom of Saudi Arabia	ArRiyadh Development Authority  Municipality of Riyadh	2010	Safe Road Design Specialist employed by DHV B.V.	<p>Provide practical road design and road safety knowledge to the Consultant's team, as follows:</p> <ul style="list-style-type: none"> <li>development of design solutions for urban highway integrated with urban development and high density land use for commercial, public/private offices and residential purposes</li> <li>review the proposed design and discuss road safety consequences with the client</li> <li>contribute to traffic study and preliminary and final roads design with impact assessment</li> </ul>	five months
Emergency highway extension schemes as part of the Multi-annual Infrastructure, Space and Transport (MIT) Emergency Act	The Netherlands	Road and Maritime Transportation Department of the Ministry of Transport and Waterways  Funding: Dutch Government	2009 - 2010	Road Safety Consultant employed by DHV B.V.	<p>Undertake road safety assessments and audits, including advise and recommendations for improvement measures, as follows:</p> <ul style="list-style-type: none"> <li>conduct road safety reviews and audits of emergency projects aimed at improvement of traffic flows on the national motorway network.</li> <li>special assignment by the Minister for auditing of the design on sustainable safety topics of projects in the planning and preliminary design stage and as a part of environmental impact assessment</li> <li>reporting of findings, conclusions and recommendations to the Directorate, responsible for project implementation of road network improvement plans</li> <li>all-in-all about 15 different road projects were assessed on road safety aspects</li> </ul>	two years for four days per week
Preparation Preliminary Route Study Highway 61	The Netherlands	Roads and Waterways	2008 - 2009	Team leader employed by DHV B.V.	Prepare a road study as part of the environmental impact assessment, as follows	one year

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Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
		Directorate for the Zeeland Region  Funding: Dutch Government			<ul style="list-style-type: none"> <li>conduct a team of consultants' experts and engineers for noise and air pollution investigations, compensation for lost natural environment, safe road design, scheme alternatives investigations and cost calculations</li> <li>assist the Directorate in unifying and standardizing traffic and road signs for the N61 highway reconstruction scheme and connecting road network</li> <li>confer with Directorate, Structures Directorate, Corporate Services (Legal Affairs and Real Estate), Zeeland Provincial Authority and other stakeholders</li> </ul>	
Midfield Terminal Complex of Abu Dhabi International Airport	United Arab Emirates	Kohn Pederson Fox Architects with NACO and ARUP for the Steering Committee of Abu Dhabi International Airport  Funding: Government of Abu Dhabi Emirate	2006 - 2008	Safe Road Design Specialist Landside Roads Development within the NACO Team employed by DHV Environment and Infrastructure	<p>Provide road design and road safety engineering advise for preliminary and detailed design of airport access roads, as follows:</p> <ul style="list-style-type: none"> <li>prepare road design guidelines and presentation material on safe design of airport access roads for workshops with architects and airport planners to be piloted in the project road traffic planning and road safety engineering process</li> <li>review the detailed design documents to ensure that the requirements for road safety are duly incorporated for airport access roads, arrivals and departures curbs, parking lanes, access roads to business district and the split-level interchanges with Dubai-Abu Dhabi Highway (E10)</li> <li>ensure that geometrical, drainage and structural design of the roads are developed and integrated in design of landscape, airside, utilities, terminal building and parking garage to result in a safe system for all road user modalities including pedestrians</li> </ul>	two years permanently
Technical Assistance for Sustainable Road Maintenance Capacity	Tanzania	Mwanza City Council  Funding: European Development Fund	2005 - 2006	Road Safety Expert employed by DHV Consultants	<p>As a member of the Consultant's Team assigned to enhance the Municipality's competences in the road safety matters, contribute as follows:</p> <ul style="list-style-type: none"> <li>prepare an operational plan for the inclusion and dissemination of the concept of road safety in all relevant activities of the Mwanza City Council</li> <li>set-up of accident database for the main road network of Mwanza based on crash investigations over the past five years with data obtained from the Traffic Police</li> <li>include the communities and other stakeholders, requiring community participation and stakeholder management by preparation of training material and conducting workshops</li> <li>prepare and conduct training workshops and public campaigns for the first responders and road users/stakeholders (including schools, transport organisations, taxi drivers associations, hospitals/ambulance services, traffic police and community workers) on traffic regulations and road safety issues;</li> <li>assist the city Council in unifying and standardizing traffic and road signs and markings for measures such as reducing speed, safe driving conduct</li> <li>increase knowledge and interest of decision makers and by demonstration projects</li> <li>prepare guidelines and training material on safe arterial roads design and conduct workshops for on-the-job training for the City Council technical staff, thus contributing to capacity building within the Council's organization</li> </ul>	three missions of five weeks over a period of one year

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Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
Training Safe Road Design	Bulgaria, Estonia, Latvia, Lithuania, Poland, Romania and Turkey	World Bank and the Dutch Partners for Roads Programme (also funding)	2004 - 2009	Safe Road Design Trainer employed by DHV Consultants	Contribute to capacity building of road administration staff in sustainable safety and road safety engineering, as follows: <ul style="list-style-type: none"> <li>• prepare training materials for national and regional government staff and police officers in the principles of sustainable safe road design, based on the Dutch Road Safety Concept</li> <li>• organize and implement five-day workshops in theory and practice of the design of safe solutions for black spot locations (design and construction of road safety countermeasures, crash investigation/collisions analysis)</li> <li>• prepare training modules with an emphasis on training of trainers and the use of the practical manual on sustainable safe road design</li> </ul>	seven five - day missions plus five days per mission for preparation and feedback
Preparation of the practical manual Sustainable safe road design	Home Based	World Bank (also funding)	2005	Co-Author employed by DHV Environment and Infrastructure	Contribute to the drafting of the practical manual for road safety to be used by road administration staff in developing countries, as follows: <ul style="list-style-type: none"> <li>• prepare guidelines and training material on safe arterial roads design to be piloted where practicable on project roads worldwide</li> <li>• drafting of the manual “Sustainable Safe Road Design, a practical manual” to assist professionals and stakeholders when developing national roads construction and extension schemes</li> <li>• ensure that the core aims of the manual are achieved: <ul style="list-style-type: none"> <li>○ provide an overview of relevant safe road design practices;</li> <li>○ provide material for future training courses;</li> <li>○ guide experts in applying safer road design measures in countries worldwide</li> </ul> </li> </ul>	three months
Feasibility Study, Design and Preparation of Tender Documents for Paved National Roads Backlog Maintenance.	Uganda	Ministry of Works European Development Fund	2005	Road Reconstruction Advisor and Consultant’s Team Leader employed by DHV Consultants	As a team leader undertake road inspections of the national paved road network, as follows: <ul style="list-style-type: none"> <li>• responsible for the development of works programs to reduce the maintenance backlog of paved roads on critical sections of the national paved roads network.</li> <li>• review of current pavement management policies and procedures to deduce the lessons learned. Reporting with recommendations</li> <li>• advise in establishing causes of the rapid paved road deterioration</li> <li>• develop strategies used to mitigate maintenance shortcomings of the paved road network.</li> <li>• reporting with recommendations on the preparation and implementation of road maintenance plans and investment programs.</li> <li>• prioritization of road sections for maintenance,</li> <li>• drafting of standard tender documents for six packages for maintenance of road sections, to be executed in a three years program. Technical and administrative specifications are based on the FIDIC Conditions of Contract 1992.</li> </ul>	three months continuously
Technical Assistance for	Guinea	National Directorate for Road Maintenance	2002 - 2005	Road Maintenance Consultant	Undertake capacity building of client’s staff in road maintenance works’ preparation as follows:	three months (intermittent)

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Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
Road Maintenance Training		European Development Fund		employed by DHV Consultants	<ul style="list-style-type: none"> <li>provide training and consultancy in technical and administrative preparation and control of maintenance contracts for the national and regional road network as part of the technical assistance to employees of the national road maintenance directorate; development of criteria for the selection of local contractors (small and medium enterprises) in self-prepared workshops;</li> <li>prepare and install a databank to select contractors for specific road and bridge maintenance projects; assignment by the Ministry of Public Works, National Directorate for Road Maintenance; financed by the European Development Fund</li> </ul>	
Various road design and construction projects	The Netherlands	Zeist and Driebergen municipalities, Zeeland Regional Roads Directorate, Noord-Brabant Regional Roads Directorate, Dutch Railways, Solid Waste Treatment Company, contractor BAM NBM, municipality of Alphen, municipality of Leusden	2001 - 2002	Head of the department for infrastructural projects, engineering design and construction preparation employed by DHV Environment and Infrastructure	<p>Manage and conduct the 25 plus engineering team responsible for a number of road projects:</p> <ul style="list-style-type: none"> <li>preliminary design split level interchange N225 on the A12 motorway, based on the national roads design standards; assessment of proper application of safe road design principles.</li> <li>preliminary route design of N61 motor-road, including development and assessment of safe road design features, environmental impact assessment and landscaping.</li> <li>engineering (geometrical and safe road design and tender documents) for motorway A50, including five major structures; assessment of safe road design aspects of over- and underpasses (location of supports).</li> <li>final design and additional works for the connection of the Hazeldonk distribution center at the Belgian border with the A16 motorway. Specific attention was paid to safe driving features for lorries exiting and entering the highway.</li> <li>develop office real estate area in the centre of Utrecht; planning for the preparation of the site for building of multi-story offices; coordination with various stakeholders;</li> <li>advisor in a construction team with client and contractor to develop and implement a solid waste collection site to promote recycling of waste materials.</li> <li>engineering as subconsultant in design and construct contract for design and tender document preparation of A14 ringroad of The Hague.</li> <li>safe road design and works'tender preparation for reconstruction of the urban distributor road.</li> <li>development and implementation of sustainable safety measures for urban roads and streets.</li> </ul>	two years
Various	The Netherlands	Ministry of Public Works, Department of Transportation and Water Management Directorate Utrecht	1998 - 2000	Specialist Roads and Infrastructure Design employed by DHV	<p>Undertake roads and traffic studies for complicated projects in an advisory role:</p> <ul style="list-style-type: none"> <li>elaboration of three pilot road infrastructure development projects to new contract types (Innovative Contract Types: design-build-maintain, design-manage, contracting); especially assigned with the subject "market approach". This effort resulted in a manual for the tendering of innovative contracts for safe road design and construction.</li> </ul>	two years



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Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
		Province of Gelderland Groningen Airport Eelde Province of Zeeland Municipality of Harmelen, Roads Directorate of North-Holland, Ministry of Public Works		Environment and Infrastructure	<ul style="list-style-type: none"> <li>• engineering and design for the environmental impact assessment regarding the rerouting of rural distributor road N303 in the municipality of Putten); project management for geometrical and structural design of roads and structures (including railway-underpass), landscaping, comparison of various alternatives.</li> <li>• advisor civil engineering for the Airport Eelde Extension Masterplan.</li> <li>• advise on the preparation of tender and tender procedures of large scale maintenance for the Zeelandbridge (5 km length): applicable legislation, legal aspects according EU-regulation, attending design &amp; construct aspects, development of selection and tender guidelines. Selection criteria for contractors developed by the advisor included the proposed innovations on safe traffic management during construction.</li> <li>• design and tender documents preparation of access roads to the Haanwijk bridge: pavement design, geometrical design, road safety, earthworks technical specifications; re-use of materials, application of the strategy on the environmentally safe use of building materials.</li> <li>• feasibility study for the Amsterdam-Almere-t Gooi highway network, improvement and upgrading of motorways A1, A6 and A9 with a design horizon of 20 years, seven major alternatives elaborated: technical and financial control of engineering works (route note and environmental impact assessment), planning and employment of staff.</li> <li>• preparation of reconstruction and enlargement of the adjacent motorway A4 Amsterdam - The Hague;</li> <li>• preparation of the design note as part of the reference design for the tendering of the design and construct contract, including reporting on geotechnical, environmental, landscaping and noise reduction aspects.</li> </ul>	
Various	Ethiopia, Eritrea	Various	1994 - 1998	Team leader, employed by DHV Consultants	<p>Conduct the project management as the technical, financial, personnel and logistics manager for transportation and infrastructural projects in Ethiopia and Eritrea commissioned by various clients and financiers (Ethiopian Roads Authority, Directorate General for International Cooperation of the Netherlands, European Development Fund, United Nations Capital Development Fund, Addis Ababa Water and Sewerage Authority). The manager's duties are:</p> <ul style="list-style-type: none"> <li>○ Technical coordination</li> <li>○ Client, local consultants and donor contacts</li> <li>○ Contract and financial management</li> <li>○ Assignment and management of short term experts (local and international)</li> <li>○ Planning and control in close concert with the firm's financial controllers</li> <li>○ Monthly reporting to the head office in the Netherlands</li> <li>○ Some projects executed by me and/or under my leadership (specified hereunder):</li> </ul>	three and a half years continuously

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Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
Construction (works) contract of a Police School in Decamare	Eritrea	Royal Netherlands Embassy, Directorate General for International Cooperation	1998	Contract Specialist employed by DHV Consultants	Undertake assessment of contract documents for building construction, as follows: <ul style="list-style-type: none"> <li>Financial and technical control of selection and tendering procedures,</li> <li>control of contract documents,</li> <li>selection of contractors and contract award and contractual (administrative and financial)</li> <li>control of tendering procedures for the construction (works) contract,</li> </ul>	five months (intermittent)
Addis Ababa Improvement of Sanitary Conditions	Ethiopia	Addis Ababa Water and Sewerage Authority; financed by ORET: Ethiopian and Netherlands Government funding.	1997 - 1998	Road Design Engineer employed by DHV Consultants	Undertake the tender preparation and conduct the team of experts, as follows: <ul style="list-style-type: none"> <li>Preparation of tender documents for the improvement of sanitary conditions in Addis Ababa by the construction of sludge lagoons, provision of transport facilities for sludge</li> </ul>	two months (intermittent)
Adi Arkay Access Road Study	Ethiopia	United Nations Capital Development Fund	1997	Road Engineer employed by DHV Consultants	Conduct the reconnaissance survey (Team Leader), as follows: <ul style="list-style-type: none"> <li>Project identification mission,</li> <li>determination of road design standards,</li> <li>advise and cost calculations for design and construction of rural roads in coherence with social-economic development</li> <li>environmental impact assessment with mitigating measures in the Simien Mountains Park area</li> </ul>	three months
Design and tender preparation for the reconstruction of the road Awash-Dire Dawa-Harar (325 km)	Ethiopia	Ethiopian Roads Authority Funding: Ethiopian Government	1996-1998	Design Engineer employed by DHV Consultants	Undertake road engineering design and tender preparation and conduct the team of experts, as follows: <ul style="list-style-type: none"> <li>upgrading of the design for the international road link between Ethiopia and Djibouti along the edge of the Great Rift Valley;</li> <li>preparation of geometrical and geotechnical design by CAD (MX), including hydrology, drainage design, structural design of bridges,</li> <li>preparation of draft-contract in accordance with WorldBank procedures and FIDIC Conditions of Contract</li> </ul>	two years (intermittent)
Erosion protection measures for Dilb-Kulmesk-Lalibela Rural Road (60 km)	Ethiopia	Royal Netherlands Embassy, Directorate General for International Cooperation	1996	Design Engineer employed by DHV Consultants	Undertake reconnaissance survey and road safety inspection, as follows: <ul style="list-style-type: none"> <li>Field survey and advise for prevention of avalanches and measures for soils protection during and after reconstruction for the road Dilb-Kulmesk-Lalibela.</li> <li>Drafting of design report including low cost (labour intensive) execution of protection works and road safety improvement</li> </ul>	one month
Design and tender preparation of the reconstruction of the road Addis Ababa-Modjo-Awassa (275 km)	Ethiopia	Ethiopian Roads Authority Funding: European Development Fund	1994 - 1998	Design Engineer employed by DHV Consultants	Undertake road engineering design and tender preparation and conduct the team of experts, as follows: <ul style="list-style-type: none"> <li>preparation of geometrical and geotechnical road design</li> <li>preparation of tender documents and technical specifications,</li> <li>conduct pre-tender meeting with contractors</li> <li>evaluation of tenders</li> </ul>	three and a half year (intermittent)

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Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
					<ul style="list-style-type: none"> <li>advise on contract award</li> <li>management of the works contract during mobilisation phase of the contractor</li> </ul>	
Shinyanga Region Rural Water Supply Program	Tanzania	Ministry of Water finance by: Directorate General for International Cooperation, The Hague	1985 - 1987	Professional Advisor Operation and Maintenance	As an Advisor to the Regional Water Engineer of Shinyanga responsible for: <ul style="list-style-type: none"> <li>setting up of the five years rural water supply rehabilitation program, together with the regional water, health and community participation authorities.</li> <li>training of local staff in operation and maintenance of rural water supply and sanitation.</li> <li>formation of teams for integrated program implementation with involvement of regional community development and health departments with an emphasis on the involvement of women.</li> <li>education and publicity campaigns for villagers in safe use of water and sanitation.</li> <li>implementation of pilot projects in four villages in Kahama, Shinyanga, Maswa and Bariadi Districts.</li> <li>advisor to local authorities on the operation and maintenance of water supply, procurement of tools and materials (including setting up and management of stores) and the productive use of water for agriculture, cattle watering, forestry.</li> </ul>	one and a half year
Morogoro Region Shallow Wells Construction Project	Tanzania	Ministry of Water finance by: Directorate General for International Cooperation, The Hague, in partnership with the Organisation of Dutch Volunteers	1982 - 1985	Rural Water Supply and Development Consultant	As a member of the Consultant's team prepare, plan, monitor, report and follow up: <ul style="list-style-type: none"> <li>rehabilitation, operation and maintenance of 800 shallow wells, constructed from 1978 to 1981 in villages of Morogoro and Kilosa Districts.</li> <li>training of local rehabilitation and maintenance personnel.</li> <li>survey and construction of shallow wells for Kilombero Sugar Estate and other state owned and private agricultural enterprises.</li> <li>control of water quality of selected boreholes,</li> <li>planning and supervision of well rehabilitation works.</li> <li>product development (handpumps and related materials, tools and equipment).</li> <li>investigations of various ways and possibilities of productive use of water, aiming at improvement of villager's economic conditions.</li> <li>development of rural water supply databank computer system to be used for planning and management of regional rural water supply systems.</li> </ul>	three and a half years continuously
Reconstruction works of the Route Nationale No. 6, Kayanza-Ngozi (32 km )	Burundi	Ministry of Public Works, financed by the European Development Fund	1981	Assistant to the Chief Resident Engineer employed by DHV Consultants	Assist the Chief Resident Engineer in his daily duties, as follows: <ul style="list-style-type: none"> <li>supervision of road upgrading to asphalt standards, performed by an international contractor.</li> <li>control of the contractor's daily activities and progress.</li> <li>preparation of reports and the provision of additional relevant information for the Contracting Authority.</li> </ul>	one year

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Project Name	Location	Client and Funding	Year	Position	Duties	Time spent
					<ul style="list-style-type: none"> <li>• design modifications and adaptations for the geometrical alignment, retaining walls, side and cross drainage structures, road structure environment protection measures and relevant contract descriptions, including quantities calculation and revision of prices all aimed at improved traffic safety</li> <li>• financial and technical administration of the works contract.</li> </ul>	

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