

# Resume Wim Janssen

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## Objective

To obtain freelance contracts or interim positions in the field of Geographical Information Systems

## Personal Data

Name	Wim Janssen
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Date of birth	23 September 1979; Groningen
Availability	June 2020

## Summary

Wim is a geo-professional and project leader. With fourteen years' experience in GIS systems he has a deep understanding of many technical subjects within the field, including data management, software development, analyses, data exchange, and cartography. He feels at ease in time or resource constrained projects, where good communication, quick problem analysis and feasible solutions are of the utmost importance. His communication style is clear and efficient, towards stakeholders, project management and to his team members. He is ambitious, seeks support for his ideas and is a pro-active problem solver.

## Education

1997 – 2005	Delft University of Technology, Civil Engineering. #2 in QS World University Rankings for Civil Engineering.
1990 – 1997	CSG Het Streekllyceum, Ede, VWO ("preparatory scientific education")

## Career overview

2020 -	<i>Move to Virginia Beach VA. I have an Employment Authorization Document and a work permit. A business permit will follow soon..</i>
2007 – 2020	<i>Junction GIS Advies; Amsterdam</i> Director; Contracted work for a.o. <ul style="list-style-type: none"><li>• Ministerie van Defensie [Dutch ministry] /NATO CEPS, GIS Consultant</li><li>• Alliander [energy network], GIS Consultant</li><li>• TNO [national research organisation], Functional Analyst</li><li>• Arup [engineering company], Amsterdam, GIS Team Lead</li><li>• Schiphol Group [airport], Schiphol, Geodatabase Designer</li><li>• Ministerie van Landbouw, Natuur en Voedselkwaliteit [Dutch ministry], Assen, GIS Application Manager</li><li>• Grontmij [now Sweco; engineering consultancy], De Bilt, GIS Analyst</li><li>• Waterschap Hollandse Delta [water board], Ridderkerk, GIS Analyst</li><li>• Rijkswaterstaat Bouwdienst [directorate-general], Utrecht. GIS Technician</li></ul>
2005 – 2007	<i>Nelen &amp; Schuurmans, Utrecht.</i> Consultant rural and urban water management
1998 – 2005	<i>During his studies he held various positions, a.o editor at Delta, chief editor for Orakel, Freelance web developer for the International Office of the Delft University of Technology.</i>

## **Projects**

*Ministerie van  
Defensie / NATO  
CEPS  
(2018-2019)  
GIS Consultant*

- Development of a risk model for the NATO Central European Pipeline System
- Data pipeline for analysis on the 100 TB National Elevation Model in Python, MS SQL Server and ArcGIS.

*Alliander  
(2017-2018)  
GIS Consultant*

- Development of several online tools for real-time monitoring and failure identification of millions of remote electricity meters.
- Development of several models for identifying optimal locations for sustainable energy sources.

*TNO  
(2016-2018)  
Functional  
Analyst*

- Functional Analysis of the Subsurface Key Register of the Netherlands (BRO)
- BRO has data and models in the fields geological, geotechnical, groundwater, and exploration research fields, covering all of the Netherlands.

*Arup  
(2014 – 2015)  
GIS Team lead*

- Groningen project for structural upgrading. Earthquakes induced by gas extraction necessitate structural upgrading of buildings in the province of Groningen.
- Wim was team lead GIS with an international team of 4 programmers and analysts. Their goal was delivering the project with analysis data for 300000 buildings in the area of interest.
- Wim set up a managed workflow, to meet the requirements of traceability, reproducibility and scientific underpinning.
- With his strong background as a GIS technical specialist, Wim coached the team, and taught them to use visual programming for analysis.
- Wim developed the transactional, change tracking production geodatabase (ArcSDE/PostGIS) and a proof-of-concept web service. (ArcGIS Server).
- Wim was responsible for client management within Arup, and to NAM.

*Schiphol Group  
(2012 – 2013)  
Geodatabase  
designer and  
administrator*

- Project FUSE. For the asset management division all geographical data was to be stored in a geodatabase. Data was converted from systems like Atlas, AutoCAD, Terminal Viewer, ArcFM/UT and more. This data was published via a web service, and to a plotting server, and had functionality for network tracing, CAD exports and database interfaces to OBIEE and EDMS. The product was named SGIS.
- Wim was tasked with the functional and technical design of the database, and the development and management of a geodatabase with over 400 feature classes in 70 'themes'.
- Wim advised and developed a standard Oracle Database with the ArcGIS geodatabase layer (ArcSDE), and additional database views to enable the web viewer, reporting en data exchange.
- Wim delivered a protocol for the DTAP-street, wrote test reports and patched production datasets.
- Wim expanded his tool kit for database management with tools for checking database status, performance monitoring, SDE registration and checks for locks, statistics, hanging versions and more.

*Ministerie van  
Economische  
Zaken, Landbouw  
en Innovatie  
(2010-2011)  
GIS Application  
Manager*

- Development of a reference database of agricultural parcels.
- Set up of a Job tracking management system for 80 GIS editors.
- Direction of level 3 checkers.
- Development of validation tool kit.
- Development of management tools for a multi-user geodatabase.
- Restoring database back-ups.

## **Projects (continued)**

*Nelen en Schuurmans (2005-2007)*  
**Consultant water management**

- Design and development of an Oracle database with sewer data for modelling: Turtle Riolering
- Development BOS Delfland. A control system with telemetric input, forecasting, and a controller.
- Development of BOS Boezemkaden. Point and click flooding simulation with mapped animation.

## **Competences**

*Geodatabase*

Uses PL/SQL (Oracle, PostGIS, and MySQL) for programming of views, triggers, functions and procedures. Deep knowledge of the SDE schema, multi-user geodatabases. Knowledge of database query optimisation, strategies for data exchange.

*GIS Systems*

Deep knowledge of data management and metadata. Knowledge of the cartographic principles projection, map layers and colour use. Skilful in analysis, with geoprocessing or Python, including Spatial Analyst and 3d Analyst. Sees opportunities for process optimisation with software development. Publishes with ArcIMS, Google Earth and several open-source solutions.

*Programming*

Developed several applications, tools and plug-ins with Java, C, C++, C++.NET and C#.NET with libraries like ArcObjects. Oracle database queries with SDE extensions. Created an extended tool kit with ArcGIS-scripts created in python, VBScript, and JScript. Developed web applications with PHP, ASP, JavaScript, AJAX and jQuery.

*Other software*

Developed flow network models with Sobek; scripts for Excel; calculations with Maple and Mathematica. Managed several databases, waaronder Oracle 10g, 11g.

## **Courses**

Waterloopkundig laboratorium Delft  
Nelen & Schuurmans

Flow modelling with Sobek

Several courses; Among others, data management with Esri ArcGIS

## **Other activities and memberships**

2013

Winner Esri 'Special Achievement in GIS' award

2011 - 2016

NATO Clearance

2004

Student member of Innovatieplatform – the innovation brainstorm team of the Dutch Ministry of General Affairs

1995 en 1996

Twice participant of the National Chemistry Olympiad. Finished in the national finals (top 20).