


## Curriculum Vitae - Ruud Mantingh

<b>Name:</b>	Ruud Mantingh	
<b>Date of birth:</b>	27-01-1963	
<b>Education:</b>	Technical College (HTS Alkmaar) - Computer Sciences - 1985 (degree equivalent to Bachelor of Science)	
<b>Current position:</b>	Director / Senior Consultant - EnergyForge Ltd.	
<b>Languages:</b>	Fluent in Dutch and English Conversational in German and Norwegian	

Areas of expertise	
Hydrocarbon Accounting systems	<p>Career spanning 30 years in IT with 23 years experience in the oil and gas industry developing and maintaining hydrocarbon accounting and related systems.</p> <p>Carried out work for most of the major players, and spent a lot of time on client sites. Although an IT professional, over the years has worked closely with users and has gained extensive business knowledge accordingly.</p> <p>In-depth knowledge of various hydrocarbon accounting systems, forecast planning applications, and historical data systems developed for clients such as Shell, BP and BG.</p> <p>Carried out pre-study requirement analysis in various companies. Good client interpersonal skills, and an excellent knowledge of production activities and data requirements.</p> <p>Proficient in Oracle database design and system development, testing and implementation. Also carried out on site training for Hydrocarbon Accounting systems.</p> <p>Extensive knowledge of Business Objects universe design and reporting.</p> <p>Extensive knowledge of Tieto's Energy Components (EC), especially the Production, Transport and Sales modules. Played a pivotal role in implementing EC for Shell, BP and BG operating companies.</p> <p>Dutch national resident in the UK and fluent in Dutch and English and conversational in German and Norwegian.</p>
Data management	
Database administration	
System design, development and implementation	
Data migration and interfaces	
Requirements Analysis	
Business Intelligence	
Training & Documentation	
Energy Components	
Oracle RDBMS up to 12c	
Oracle PL/SQL	
Oracle APEX 4.2	
Business Objects XI	
MS Excel VBA	
Linux, UNIX, Windows	

## Work experience

### May 2014 - Jun 2015

Employer: EnergyForge  
Position: Senior Consultant  
Client: BG  
Location: UK

Technical support for the BG Brazil implementation of the EC 10.2 Transport module used for their offshore cargo scheduling and administration activities. Main tasks included bug fixing and further development for the EC Transport module. Also provided additional training to end-users and support team members.

### Sep 2013 - Apr 2014

Employer: EnergyForge  
Position: Senior Consultant  
Client: BG  
Location: UK & Brazil

Technical lead for the BG Brazil project and responsible for implementing the EC 10.2 Transport module for their offshore cargo scheduling and administration activities. Main tasks included the preparation and configuration of the EC database / application and building the cargo scheduling calculation rules. Provided training to users and support team members. Helped develop EC global templates for EC implementations by BG.

### Apr 2013 - Oct 2013

Employer: EnergyForge  
Position: Senior Consultant  
Client: BP  
Location: UK

Part of team supporting the PSVM and Greater Plutonio developments for BP Angola. Helped maintain their new EC 10.1 implementations and develop new functionality. Provided training to end-users and support team members.

### Jul 2010 - Apr 2013

Employer: EnergyForge  
Position: Senior Consultant  
Client: BP  
Location: UK & Angola

Part of the BP Angola project team and helped to implement EC 10.1 for the new development PSVM in Angola and to migrate their existing development Greater Plutonio from EC 9.1 to EC 10.1. Responsible for the Cargo Administration module in EC but has also been involved with the Production Management and Entitlement Sharing modules. Main tasks included the preparation and configuration of the EC database / application and the data migration from EC 9.1 to EC 10.1. Provided user training for the Cargo Administration functionality in EC. Helped develop Business Objects universes and reports used by BP Angola and BP globally. Helped develop EC global templates for EC implementations by BP.

## Work experience

### 2007 - 2010

Employer: EnergyForge  
Position: Senior Consultant  
Client: Shell  
Location: UK, Norway & Egypt

Assisted Shell Egypt (Bapetco) in the implementation of TietoEnator's hydrocarbon accounting system Energy Components to replace their old system Upstream. Assisted with data migration from Upstream to EC and BusinessObjects report conversion. Developed an automated data input interface to EC. Provided user training in Energy Components and Business Objects reporting.

Assisted Shell Nigeria (SPDC) with historical data migration from EC 6.5 (IPS) to EC 9.0.

Internal project developing hydrocarbon accounting system using Oracle's APEX tool-kit.

### 2005 - 2007

Employer: EnergyForge  
Position: Senior Consultant  
Client: Shell  
Location: UK & Netherlands

Provided technical services for the Shell Implementation of Energy Components. Specialised in data migration and data reporting, developing a common BusinessObjects universe and common reports for EC within Shell, as well as providing technical support in these areas, particularly in the migration of these between EC versions.

Converted a production planning tool for Shell Nigeria into a web based system and created a web based Change Request system - both developed using the Oracle APEX tool-kit.

Provided technical support for other systems such as Upstream.

### 2003 - 2005

Employer: EnergyForge  
Position: Senior Consultant  
Client: Shell  
Location: UK  
Tools: Oracle RDBMS 9i, SQL\*Plus, PL/SQL, BusinessObjects v5, PowerBuilder v6.5

Development and support of various implementations of TietoEnator's hydrocarbon accounting system Energy Components.

Provided BusinessObjects skills and Universe creation, and external support for TietoEnator on Energy Components/EPPROMS data migration and system interfaces.

## Work experience

### Oct 2001 - Oct 2003

Employer: TietoEnator  
Position: Senior Consultant  
Client: Shell  
Location: UK, Norway, Oman and Egypt  
Tools: RS6000, Oracle RDBMS 7.3 and 8i, SQL\*Forms 3.0, SQL\*Menu 5.0, SQL\*Plus, SQL\*Report, SQL\*ReportWriter, Pro\*C, PL/SQL, BusinessObjects V4, PowerBuilder V6.5

Ongoing support and development for EPPROMS, the old hydrocarbon accounting system in use by Shell worldwide.

Support and development for UPSTREAM, the hydrocarbon accounting system used by Shell Expro UK that replaced their old EPPROMS system.

Support and development for UHPS, the historical production data system used by Shell Expro UK.

Development of bespoke functionality for Energy Components, the hydrocarbon accounting system used by A/S Norske Shell that replaced their old EPPROMS system.

Requirement studies for Shell and BP in Oman and Egypt. On-site training for Shell and BP.

### Oct 2000 - Oct 2001

Employer: Probase Software Services  
Position: Consultant  
Client: Shell  
Location: UK, Norway  
Tools: RS6000, Oracle RDBMS 7.3 and 8i, SQL\*Forms 3.0, SQL\*Menu 5.0, SQL\*Plus, SQL\*Report, SQL\*ReportWriter, Pro\*C, PL/SQL, BusinessObjects V4, PowerBuilder V6.5

Ongoing support and development for EPPROMS, the old hydrocarbon accounting system in use by Shell worldwide.

Support and development for UPSTREAM, the hydrocarbon accounting system used by Shell Expro UK that replaced their old EPPROMS system.

Support and development for UHPS, the historical production data system used by Shell Expro UK.

Development of bespoke functionality for Energy Components, the hydrocarbon accounting system used by A/S Norske Shell that replaced their old EPPROMS system.

## Work experience

### Aug 1998 - Oct 2000

Employer: Probase Software Services  
Position: Consultant  
Client: Shell  
Location: Netherlands, UK, Norway  
Tools: RS6000, Oracle RDBMS 7.3, SQL\*Forms 3.0, SQL\*Menu 5.0, SQL\*Plus, SQL\*Report, SQL\*ReportWriter, Pro\*C, PL/SQL, BusinessObjects V3 & 4, PowerBuilder V6.5

Developed a PowerBuilder/Oracle system (UHPS - Upstream Historical Production System) to replace the EIPRO system used by Shell Expro UK to store their historical production data.

Ongoing development, support and Y2K conversion for EPPROMS, the hydrocarbon accounting system in use by Shell worldwide.

### Oct 1996 - Aug 1998

Employer: Probase Software Services  
Position: Consultant  
Client: Shell  
Location: UK, Netherlands, Norway, Egypt  
Tools: RS6000, RDBMS 7.1, SQL\*Forms 3.0, SQL\*Menu 5.0, SQL\*Plus, SQL\*Report, SQL\*ReportWriter, Pro\*C, PL/SQL, BusinessObjects V3 & 4

Development and support for EPPROMS, the hydrocarbon accounting system in use worldwide by Shell. Work included bug fixing, analysis and development of new functionality.

Year 2000 conversion of the EPPROMS system

Various on-site visits to Shell Operating Companies to perform some local work (e.g. Shell Expro UK, Norske Shell and Shell Egypt).

### Sep 1993 - Jan 1996

Employer: P-E International / Cray Systems  
Position: Consultant  
Client: A/S Norske Shell  
Location: Norway  
Tools: MicroVAX, HP 9000, RS 6000  
Oracle RDBMS 6.0 & 7.1, SQL\*Forms 3.0, SQL\*Menu 5.0, SQL\*ReportWriter, SQL\*Plus, PL/SQL, Pro\*C, Business Objects v3, Excel VBA

Worked in Kristiansund, Norway on the Norske Shell IT programme that provided assistance in the production of the Draugen field north of Kristiansund. The work consisted of designing and implementing the Operational Analysis System (OPAS) and Environmental Mass Balance (EMB) system. OPAS is the system that stores instrument readings from offshore for user analysis. EMB is the system used to track and record offshore chemical usage and storage. Furthermore, technical support and training was given for the EPPROMS, PPTS, OPAS and EMB systems including programming enhancements.

Converted the OPAS and PPTS systems to Shell's Harmonised Target Environment (HTE) i.e. moved the applications from VAX to UNIX and converted the databases from Oracle 6.0 to 7.1. Also functioned as BusinessObjects developer and focal point.

## Work experience

### Aug 1993 - Sep 1993

Employer: P-E International  
Position: Consultant  
Client: A/S Norske Shell  
Location: UK  
Tools: Oracle RDBMS 6.0, SQL\*Plus, PL/SQL, SQL\*Forms 3.0, SQL\*Menu 5.0, SQL\*ReportWriter

Helped design and develop the PPTS (Production Planning & Tanker Scheduling) system designed for A/S Norske Shell in Norway that works closely together with Shell's group common hydro-carbon accounting system, EPPROMS, and is used to generate production plans and tanker schedules for the Operations department controlling the Draugen field. The work consisted of module design, coding, implementing, testing and documenting.

### Feb 1992 - Apr 1993

Employer: Westvries Computer Consulting / P-E International  
Position: Consultant  
Client: Shell  
Location: Netherlands  
Tools: MicroVAX 3500 / 3180, VMS, DCL, Oracle RDBMS 6.0, SQL\*Plus, SQL\*Forms 2.3, SQL\*Report, SQL\*Menu 3.0, SQL\*Db

Team leader responsible for the support and maintenance of EPPROMS (Exploration & Production Production Operations Management System) which is the Shell group common hydrocarbon accounting system used by operating companies around the world. Work involved fault diagnosis, design and implementation of enhancements, testing of new releases and release control. As a second-line support function, the work required a detailed working knowledge of Oracle in order to overcome design limitations and improve system and module performance.

### Jun 1989 - Feb 1992

Employer: Westvries Computer Consulting  
Function: Computer Programmer  
Client: Hoogovens IJmuiden  
Location: Netherlands  
Tools: VAX 750, VMS, DCL, FMS, DBMS, SPM, Pascal  
PDP 11/44, PDP 11/84, RSX11M+, DCL, MCR, DBRTL, RTL/2

Development and support for WAPS and REPRO 1. WAPS is the level 3 system inside Hot Rolling Mill 2 which operates as the serving hatch to level 2 system IS-PLAK and the level 4 systems REPRO1 (furnace rolling mills) and REPRO2 (end rolling mills). It provides planning, product and production information and takes care of material tracking used by the service people. Activities included performance measurements/improvements of FMS and other applications, and system service and maintenance. Additionally built up knowledge of HDN Message Formatter and DEC's Software Performance Management (SPM) tool.

REPRO 1 is a cluster of 4 PDP 11's, forming together the level 4 system controlling the furnaces and rolling area of Hot Rolling Mill 2. The cluster consisted of PCV (Process Computer 'Voorwals'), OCC (Oven Control Computer), WCC ('Wandeloven' Control Computer) and VCC ('Voorwals' Control Computer). Activities included application changes (specifications, technical design, realisation, testing and implementation), and system support and maintenance.

## Work experience

### Jan 1989 - Jun 1989

Employer: Westvries Computer Consulting  
Position: Computer Programmer  
Client: Hoogovens IJmuiden  
Location: Netherlands  
Tools: MicroVAX II, MicroVMS, DCL, FMS, DBRTL, Pascal

Development and maintenance of POSS (Plakken Opslag en Sturing Systeem) which administers the storage and process control of steel blooms intended for the Hot Rolling Mill 2. It also sends working orders to the cranes which transport the blooms stored inside the storage halls to the Hot Rolling Mill. Activities included construction and modifications of FMS applications according to technical specifications.

### Oct 1988 - Jan 1989

Employer: Westvries Computer Consulting  
Position: Computer Programmer  
Client: Hoogovens IJmuiden  
Location: Netherlands  
Tools: VAX 750, VMS, DCL, FMS, RMS, SMURF, Pascal

Support STARSHINE. STARSHINE is the system keeping track of the movements, changes and working orders of the mixing vessels which transport the hot iron from the Blast Furnaces to the Steel Plants. Activities included application modifications (replacing FMS with SMURF), and system support and maintenance.

### Sep 1987 - Oct 1988

Employer: Westvries Computer Consulting  
Position: Computer Programmer  
Client: Hoogovens IJmuiden  
Location: Netherlands  
Tools: VAX 750, VMS, DCL, FMS, RMS, Pascal, ReGIS for DEC VT340 terminals

Support and maintenance of the Converter Control System (COCOS) for the OXY-2 steel plant. Activities included application modifications, technical documentation, and system support and maintenance.

### Jan 1987 - Sep 1987

Employer: Westvries Computer Consulting  
Position: Computer Programmer  
Client: CAVO, Utrecht  
Location: Netherlands  
Tools: PDP 11/44, RSX11M+, DCL, MCR, Pascal

Develop and install a system for the cattle food factory CAVO that controls a truck loading station and the order administration. Activities included the development and testing of applications according to technical specifications, on-site system implementation, and system testing.

## Work experience

### **Oct 1985 - Jan 1987**

Employer: Westvries Computer Consulting  
Position: Computer Programmer  
Client: Hoogovens IJmuiden  
Location: Netherlands  
Tools: VAX 750, VMS, DCL, FMS, RMS, Pascal

Converter Control System (COCOS) for the OXY-2 steel plant. Activities included application development according to functional and technical specification, modification and creation of technical documentation and specifications, module and system testing, bug hunting, system support and maintenance, and application modifications.