

Curriculum Vitae

Dr. ir. Hilderick Anne (Rick) van der Meiden

Personalia:

Surname: van der Meiden
 Birth names: Hilderick Anne
 First name: Rick
 Gender: male
 Date of Birth: June 19th 1977
 Place of Birth: Zevenaar, The Netherlands
 Nationality: Dutch
 Marital status: Married to Nicole Mischler



Contact details:

Home address: Westlandgracht 183-hs
 1059 TK Amsterdam
 Nederland
 Tel: (mobile) (+31) 06-24847323
 E-mail: rickvandermeiden@gmail.com
 Web-site: <http://kwikrick.dyndns.org>

Former occupations:

2010-now **Business Architect at Royal Netherlands Navy**
 The Centre for Automation of Mission Critical Systems (CAMS) develops Combat Management Systems (CMS) for military naval platforms. The CMS integrates all hardware, from comms and radar systems to guns and missile launch systems, and supports the tactical decision making process using data mining and smart user interfaces.
 In this job I have been involved in for research, prototyping, development and integration of software components in the CMS. Subject matter includes: radar performance prediction, computer vision, mission planning.

2007 - 1st Sept. 2009 **Post-doctoral researcher at Delft University of Technology** (EWI, Mediamatics)
 Faculty / dept.: Electrical Engineering, Mathematics & Computer Science (EWI) Mediamatics department.
 Research project: Intelligent feedback in e-learning systems (for linear algebra)
 Reference: Prof. Dr. F.W. Jansen
 Delft University of Technology
 Tel: (+31/0) 15 27 85517
 E-mail: F.W.Jansen@tudelft.nl

2003- 2007: **Doctoral researcher at Delft University of Technology** (EWI, CG&CC)

Degree: **Ph.D. in Computer Science - *cum laude*** (Nov. 26th 2008)

Faculty / group: Electrical Engineering, Mathematics & Computer Science (EWI)
Computer Graphics & CAD/CAM group (CG&CC)

Thesis: Semantics of Families of Objects

Reference: Dr. W.F. Bronsvoot
Delft University of Technology
Tel: (+31/0) 15 27 82533
E-mail: W.F.Bronsvoot@tudelft.nl

Education:

1995-2003: **Masters & Bachelor at Delft University of Technology** (EWI, CG&CC)

Degree: **MSc in Computer Science** (March 2004)

Specialisation Technical Informatics

Average grade: 7.6

Thesis: Specification of Freeform Features

Thesis grade: 9

1989-1995: **Comenius College, VWO** (preparatory scientific secondary education)

Courses: Mathematics (B), Physics, Biology, Economics, History, English,
Dutch.

Average grade: 7.5

Side jobs:

01/1999 – 09/1999 **Computer programmer at Instituut voor Nederlandse Lexicologie** (Institute
for Dutch Lexicology, Leiden)
Java/C++ based implementation of a database server for search in a text corpus

Extracurricular activities:

09/1998 – 09/1999 **Manager at student society ‘DSV De Nieuwe Delft’**
University sponsored position (bestuursbeurs)

Student projects:

07/1998 – 10/1998 **Student Exchange project at University of Portsmouth**
Design and implementation of a framework for robot navigation in a graphical
programming language. Collaboration with Portech Ltd.

05/1998-07/1998 **Software for back-injury revalidation**
part of graduation project of Walter van de Bilt, low level programming of
gyroscopic measurement hardware and a simple computer game.

Language skills:

Dutch	Native speaker, good reading and writing skills.
English	Very good speaking, reading and writing skills.

Programming skills:

<i>Programming language</i>	<i>Type of applications & libraries</i>
C/C++	2D/3D graphics (Ogre, OpenGL), parsers (Jacc/Lex), CAD kernels (ACIS), mathematics, device drivers, games, etc.
Java	GUI's (Swing), web-servlets (J2EE, Tomcat), XML
Python	prototype software, glue (SWIG), GUI (pyQT, tkInter)
PHP	MyPhP CMS, MySQL, home made photo web-sites
Assembly (x86)	low-level graphics, interrupt handling
Mathematica,	computer algebra, e-learning software
MATLAB	computer vision, statistics
Lisp,Perl,Tcl,Prolog,Haskel,Go & more esoteric languages	Experimentation and fun!
BASIC (several variants)	my first language, self-taught at age 12

Other skills:

- Lecturing in the classroom and coaching student projects (academic level)
- Teaching workshops in improvisation theatre
- Light & sound technician for small theatre productions
- Driver's licence (B)

Hobbies:

- Theatre: I have played a part in a number of theatre productions and have been active in improv theatre and theatresports for many years.
- Programming: I spend a lot of time programming on one of my many small projects, mostly concerning computer graphics, games or intriguing mathematical problems.
- I like in-line skating, cats, books and photography

Selected publications

Ph.D. Thesis:

Semantics of Families of Objects, PhD. Thesis, Delft University of Technology, 2008.

Research papers:

van der Meiden, H. A. and Bronsvoort, W. F. (2005). *An efficient method to determine the intended solution for a system of geometric constraints*. International Journal of Computational Geometry and Applications, 15(3):279–298

van der Meiden, H. A. and Bronsvoort, W. F. (2006). *A constructive approach to calculate parameter ranges for systems of geometric constraints*. Computer-Aided Design, 38(4):275–283 (Special issue on 2005 ACM Symposium on Solid and Physical Modeling)

van der Meiden, H. A. and Bronsvoort, W. F. (2007). *Solving topological constraints for declarative families of objects*. Computer-Aided Design, 39(8):652–662 (Special issue on 2006 ACM Symposium on Solid and Physical Modeling)

van der Meiden, H. A. and Bronsvoort, W. F. (2007). *Tracking topological changes in feature models*. In Levy, B. and Manocha, D., editors, Proceedings ACM Symposium on Solid and Physical Modelling, June 4–6, Beijing, China, pages 341–346. ACM Press, New York, NY, USA (an extended version has been submitted for publication in Computer-Aided Geometric Design)

Hilderick A. van der Meiden and Willem F. Bronsvoort, 2008, *A Workbench for Geometric Constraint Solving*, Computer-Aided Design and Applications, Volume 5, Numbers 1-4 (Proceedings CAD'08, June 23-27, 2008, Orlando, Florida)

Hilderick A. van der Meiden and Willem F. Bronsvoort, 2009, *Declarative modeling of families; review and prospects*, Computer-Aided Design and Applications, Volume 6, Number 3, pp. 291-306 (Proceedings CAD'09, June 2-6, 2009, Reno, Nevada)

van der Meiden, H. A. and Bronsvoort, W. F. (2009). *Solving systems of geometric constraints using non-rigid clusters*. Computer-Aided Design 42 (1):36-49, January 2010.

My Ph.D. Thesis and research papers are available on-line:

<http://kwikrick.dyndns.org>