



# CURRICULUM VITAE

## Jacob Mulder



### Personal

Jacob Mulder M.Sc. CISSP  
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Jacob@MADmelange.com, www.MADmelange.com  
Born on 14/8/1966 in Nieuw-Buinen, the Netherlands  
Married since 1988, 2 daughters, FamilieMulder.com

### Education

Drs. in Astronomy with Information Technology,  
State university of Groningen, The Netherlands, 1989.  
CISSP (information security), 2005.

### Experience

CGI	1989 - present	(4 days/week since 2010)
INCAS <sup>3</sup>	2010 - 2011	(1.5 days/week)
Hanzehogeschool	2012 - present	(1.5 days/week)
MADmelange	2008 - present	(ad-hoc)

### Skills

#### Senior ICT architect

Lead architect in numerous large and business critical ICT systems of clients of CGI (the former Logica), including ING, Gasunie, MoneyPlanet and Postbank. Architect of ITRACT-project.eu. Future IT & Cloud evangelist. Extended knowledge and vision on e-health and smart grids. Part of CGI's expertise team Collaborative Network Services. Architect of the knowledge repository of BEinGRID and important player throughout this 4-year EU project (BEinGRID.eu, IT-Tude.com). Architect and implementer of a collaboration portal for the IGU. Architecture and specification of the security of the front office, financial transactions and peripheral equipment of Dutch Postoffices.

#### Senior information security consultant

Several roles as security officer and security architect for multiple clients of CGI, including JustID, VGZ-IZA, CWI, Essent and Postbank. Promoter of an integral security approach. Enterprise security of mobile devices. Information security in healthcare. Architecture and specification of payment devices (PINpads, ATMs) and their transactions, using magnetic stripe and chip cards. Ambassador of the Logica NL Security Practice.

#### ICT design & build

Many ICT projects in many market sectors, from idea to maintenance. Core business real-time ICT systems with high availability, performance and quality. From industrial automation to mainframes. Many platforms, programming languages and environments. Real-time online transaction processing. Digital image processing of satellite data. Workpackage leader of the Interreg project ITRACT.

#### Sensor technology

Created a reference architecture for sensor systems at INCAS<sup>3</sup>. Implemented a simulation for a cognitive sensor on an FPGA. Member of Sensor Universe, knowledge of Lofar and SKA. Intelligent swarms of autonomous entities.

## Skills

(continued)

### Innovator

Started PicoSmart, a collaborative effort to implement pipeline integrity management based on a swarm of intelligent small robots. Founder of WOOSH Technology, a concept for short time-to-market of multi-channel services based on object-oriented internet technology. Architect at Working Tomorrow, Logica's graduate development program, starting and coaching multiple innovative projects.

### Trainer

Created and gave the Theme Security at Hanzehogeschool. Trainer at the Logica Academy, co-founder of Skills Centre. Knowledge management, collaboration environments. Created and gave courses ICT programming at secondary school. Coach students on innovative projects.

### Languages

Dutch (native), English (fluent), German (capable), French (read).

## Publication

'Mobile Sensor Networks for Inspection Tasks in Harsh Industrial Environments', 2010, Sensors, 10(3):1599-1618.

Suggested promotion subject: 'Ultimate control in empowered e-Health ("Power to the people – really!")'

## Hobbies

Music: djembe (leader of Nugara.org since 2000), didgeridoo (Yirr-ma.org). Starting 'adventures' via my private company MADmelange. Acquiring knowledge, especially in the extreme aspects of exact sciences.

## Interests

Cosmology, large scale structure of universe. Origin of life, SETI. Concepts of matter, energy, time. Molecular level sensors, nanotechnology. Healthcare technology, e-health, healthy ageing. Nature development (e.g. EHS). Nature as inspiration. Electronic music (synthesizer, drum computer). Applied research in ICT and exact sciences. Artificial intelligence, collaborative swarms, cognition, agent technology, robotics, related ethics and philosophy.

## Character

Enthusiastic, involved, dedicated, committed. Optimistic. No-nonsense. Inquisitive, associating, provocative, surprising, creative, innovative. Very flexible, but with focus on quality. Ambitious. Motivating and stimulating. Leading by example. Coaching and teaching. Advocate of a multi-disciplinary approach. Acknowledging commercial aspects. Adding vision and drive to projects.

## Phrases

Everything is relative. Eyes wide open. Imagine. Why not? Future IT > Cloud + mobile + security. Evolution uses small revolutionary steps. An integral and holistic approach. Our vision. I want to know, really. Interesting. Fascinating. Dare to look at multiple dimensions, dare to fly, dare to be brilliant. We do it because it's fun.