

Curriculum Vitae

Name	Ing. M.M.H. van der Crujisen (Martijn)
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Data of birth	June 28, 1974
Nationality	Dutch
Civil Status	Married

Profile

Ability to assess technology regarding feasibility for specific application domains. Open communication attitude. Clear sense of direction while flexible dealing with changing circumstances and risks. Adding value in a structural way for customer and company through projects, actively giving direction, beyond pure technical challenges. Operate at technical system level in a role that connect customers and the team that will make it happen (the linking pin).

Employment

2007 - Today **Senior Architect at RialtoSoft / HUMIQ**

Various projects for mainly automotive customers executed both in the Netherlands and on-site.

Responsibilities / Achievements:

- Resolving issues with real-time operation in combination with XP Embedded.
- Architecture and deployment of security software strategy for several production sites in Europe and Asia.
- Requirements specification and planning of Job editor enhancement project.
- Requirements engineering and software architecture definition for a functional safety library for IEC61508 SIL-3 compliment development of safety critical automotive systems.
- Analysis of the behaviour dynamic behaviour of an air bag control unit. The results are used to enhance the software- and system architecture documentation of the air bag system. The processes and documentation where successfully audited on Automotive Spice Level 2 (ISO 15504).
- Platform architecture analysis for instrument clusters. This resulted in architecture documentation of all existing products and a roadmap for evolving these products into an AUTOSAR based platform architecture.
- Concept definition of JAVA based configuration-tool for generating AUTOSAR RTE alike interfaces between components.
- CPU load analysis for a power steering system, identifying performance bottlenecks in the architecture and implementation. This resulted in a list of improvement recommendations with minimal impact on the total system.

2002 - 2007 **Software Architect at TASS**

Various projects located at customers, in Germany and the Netherlands, and for the TASS internal hardware/software working group.

Responsibilities / Achievements:

- System architecture for an image processing application.
- Defining the architecture an AUTOSAR based software package for in-vehicle networking (CAN, LIN & Flexray).
- Defining and guiding innovation projects with external parties.
- Outsourcing software activities to NXP Bangalore.
- Leading a small software development team.
- Software architecture design of speech recognition application running on a DSP.
- Presentation on D&E seminar on usage of embedded tooling.
- Providing internal FPGA training for TASS.

2000 - 2002

Software Engineer at Bosch Rexroth Hydraudyne

Development of a Linux based real-time control system for motion systems used in e.g. theme park rides, flight simulators and test equipment. The project was a pilot project for a MIL-STD-498 based quality system.

Responsibilities / Achievements:

- Requirements engineering of a new control platform.
- Architectural concept design of a new control platform (Object oriented, C++) .
- Configuration manager of entire embedded software system.
- Introduction of configuration management

1997 - 2000

Embedded Software Engineer Océ Technologies

Control system design for the paper flow of width-format printing systems.

Responsibilities / Achievements:

- Design of embedded sub-system for part of the paper-flow in close cooperation with other disciplines.
- Design of automatic software upgrade facility.
- Configuration manager of entire embedded software system.
- Coaching of temporary employees.

Languages

Fluently

Dutch, English and German

Education

1993 - 1997

Fonty's Hogeschool Eindhoven

Electronics – Technical Computer Science

- Subjects: Digital IC design, system design, computer architectures, programming techniques, telematics and electromagnetic compatibility.
- Graduation subject: Remote services concept for climate-control systems used in agricultural and food processing applications.

2009	8D problem solving training	NXP
2009	3D advance Thinking / Performance training	Performance Company
2009	MS .NET technology overview part 1 and part 2	Twice IT Training
2008	System Modelling – Matlab / Simulink / RT workshop	Fonty's Hogeschool
2008	Advanced German course	
2007	Requirements engineering (Volere)	ICT-NoviQ
2007	Handel-C FPGA modelling	Celoxica
2006	Integrity RTOS and MULTI IDE training	Green Hills Software
2005	Training DOORS requirement management – A practitioner approach	NXP
2005	Boundary Scan – Demystified	Q-Star
2005	Handel-C FPGA modelling	TASS
2005	The seven habits of highly effective people	Franklin Covey
2005	Microsoft XP embedded development kit in-depth	PTS/Trident
2004	SYSARCH System architect(ing)	Philips CTT / ESI
2004	PSP, Personal Software Process	TASS
2001	Basic course hydraulics	Bosch Rexroth
1999	Continuus Buildmanager training	QA-Systems
1999	Workshop Software inspections	Improve quality service
1998	Safer-C	Les Hatton
1998	Basic course Unix	AT-computing
1997	SA/SD for real-time systems	IBM