

# Marko Hammersen

Freelance Software Engineer For Embedded Systems And Automotive Networks



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Skilled Software Engineer offering 20-year history of designing and developing effective embedded software applications in C++ and C. Diverse knowledge of architecture, design and testing approaches.



## Skills

Embedded software design

Object-oriented development

Mentoring and training

Software analysis

Code unit testing and validation skills

Framework Development

Effective communication



## Microcontrollers, OS, Protocols

Microcontrollers: TI, STM, Freescale/NXP, NEC, Fujitsu, Cypress, Yamaha, Infineon, RaspberryPi

Real-time OS: QNX, PXROS, ProOSEK, no-OS, Embedded Linux based on Yocto

OS on PC: Linux, Windows

Serial Protocols: CAN, MOST, ISOBUS, SPI, I2C, UART, Ethernet,

Network Protocols: TCP/IP, UDP, MQTT, proprietary based on publish-subscribe pattern



## Work History

2009-01 - Current

### Freelance Embedded Software Engineer

*Hammersen, Visbek, Germany*

- Created software architecture, specification, design, implementation, unit and continuous integration tests to develop complete embedded solutions

in automotive, medical and agricultural industries.

- Provided on-site training of teams of up to eight engineers on HMI development using model-based development tool chains
- Provided on-site training of teams of up to 20 engineers on software unit testing and continuous software integration.
- Modified existing code to replace problematic functions with optimized content

**2007-07 - 2008-12**

## **Technical Lead Engineer**

*Visteon Deutschland GmbH, Kerpen, Germany*

- Supervised team of four engineers on software development of Central Head-Unit and Multimedia Platform for premium German OEM
- Designed and implemented proprietary network protocol for internal and external msg communication, also supporting MOST protocol
- Provided effort estimations in quote phases
- Provided onsite support for sales and resident teams at customers

**2001-01 - 2007-06**

## **Software Engineer**

*Visteon Deutschland GmbH, Kerpen, Germany*

- Software design and implementation of high-speed multimedia network applications on serial MOST bus for seven projects of premium British and German automotive OEMs
- Software integration support onsite at customers for each integration-phase of all projects above.

**1996-08 - 1996-09**

## **Industrial Maintenance Electrician**

*Deuka GmbH, Höltinghausen, Germany*

- Installation, commissioning, maintenance and repair of production line of animal feed mill

**1994-11 - 1995-02**

## **Industrial Maintenance Electrician**

*Deuka GmbH, Höltinghausen, Germany*

- Installation, commissioning, maintenance and repair of production line of animal feed mill

**1993-10 - 1994-11**

## **Community Service**

*St. Elisabeth Home, Lohne, Germany*

- Elderly Care of residents

**1990-09 - 1993-08**

## **Vocational Trainee Electrical Installation**

*Schulz Systemtechnik, Visbek, Germany*

- Training on installation, commissioning, maintenance and repair of electrical systems

- Degree - certified electrician, summa cum laude



## Education

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1999-09 - 2000-06

### Diploma: Electrical Engineering

*University Of Applied Sciences - Cologne*

Cum Laude

1996-09 - 2000-08

### Diploma: Electrical Engineering

*University Of Applied Sciences - Cologne*

Cum Laude

1995-03 - 1996-07

### No Degree: German Language And Literature Science

*University Of Cologne - Cologne*

1983-08 - 1990-05

### High School Diploma

*Gymnasium Antonianum - Vechta*



## Software

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C++/C



C#



Matlab



Python



## Languages

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German



English



## Certifications

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ISAOB Certified Professional for Software Architecture



## Interests

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Reading, football (active as player and coach of youth teams)