# **Marko Hammersen**

Freelance Software Engineer For Embedded Systems And Automotive Networks



19 Wilkenstr, 49429 Visbek, Germany



+49 4445 461 9999



info@mhammer3.de

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.



Embedded software design

Object-oriented development

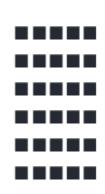
Mentoring and training

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



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



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



C++/C

C#

Matlab

Python





German

English



# Certifications

ISAQB Certified Professional for Software Architecture



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