embeddeers GmbH

WHO WE ARE

embeddeers
ENGINEERING EXPERTS

embeddeers GmbH – Company Profile

- Founded 2007 in Berlin, Germany

- Head office in Berlin with 45 employees

- Automotive experts for
  embedded systems / software / hardware Engineering

- Development team with average

  - 13 yrs automotive systems & software experience

  - 18 yrs embedded systems experience

- A Total of 400+ man-years of automotive customer project experience

- Cooperation with AVIN System (India) regarding various AUTOSAR tasks

CORE PROFESSION

- Electronic Control Units
- Functional Safety
- System Engineering
- Software Engineering
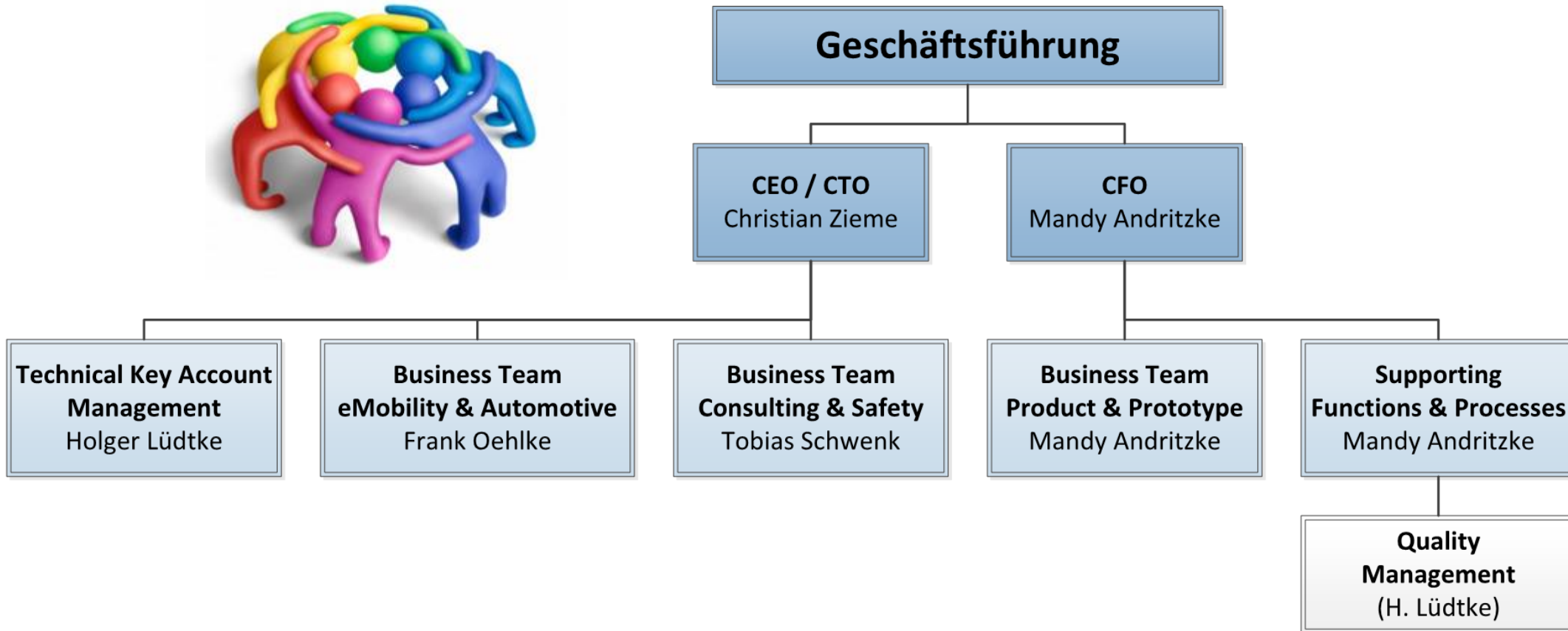- Hardware Engineering
- Test / Validation
- eMobility

SPECIALS

- All V-Model Services
- Generic IP Base
- Basic AUTOSAR Stack
- Development Web-Portal
- Laboratories
- Tools and Equipment

PROCESSES

- Automotive SPICE
- Rapid Prototyping

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embeddeers - Organisation & Management Team

Our Customers

International Experience

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REFERENCE PROJECTS

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Reference Projects

Li-Ion-Battery Projects:

- Battery Management System
- Battery Management Controller
- Cell Management Controller
- Battery Disconnect Unit
- Battery Core
- Functional Safety

Power Electronics:

- Hybrid Drive
- Drive Unit with DC/DC
- Electric Motor Control
- Microhybrid
- On-Board Charger
- Functional Safety

Certification Projects:

- Standardization / TÜV

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Reference Projects

AUTOMOTIVE ECUs

- Body Controllers
- Safety Controllers (Truck & Car)
- Birdview / Topview
- Interior and Exterior Light
- Heating / Ventilation / AC

INDUSTRY 4.0

- Connectivity Devices
- Crane Drive Units
- Bluetooth Crane Control
- Telematics Module
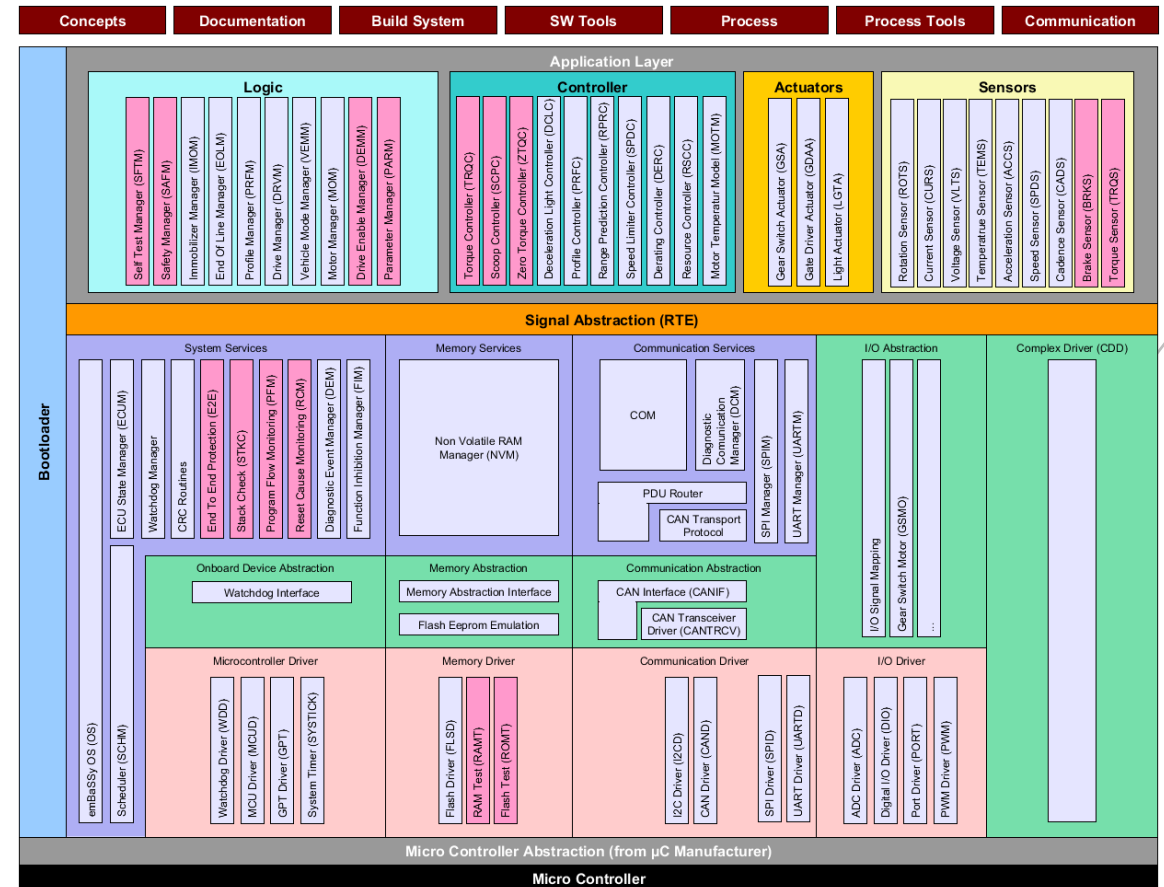- Energy Harvesting
- Electronic ePaper Label

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embeddeers IP

AUTOSAR-like Software Stack (emBaSSy)

Basic Software (BSW)

- AUTOSAR-like modules und interfaces
- Low resources usage
- Mature and in production
- Free from 3rd party rights
- Generator for CAN, RTE, DEM, NvM, …
- Contains safety modules (ASIL/SIL)
- Integrated into Eclipse IDE
- Capable up to ASIL C
- No costs
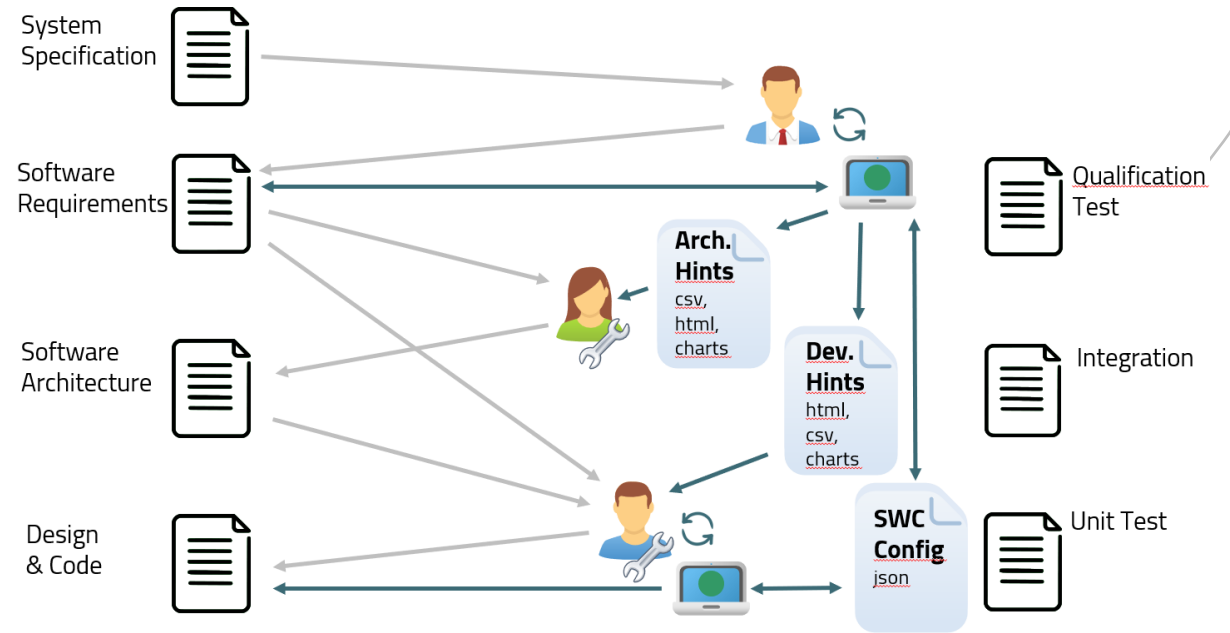
Purpose

- Rapid-prototyping
- Series production

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Application Design Tooling with Code Generation

Features

- SW Requirements engineering
- SW Architecture
- SW Component Development
- Real State Machine Design
- Testcase development
- Compatible with external tools (i.e. Matlab)
- Generates C/C++/Java Code, Charts, Design, Requirments

Advantages

- Reduces Application costs up to 1/20
- Reduces Development Time up to 1/10
- Increases Quality
- Increases Maintainability
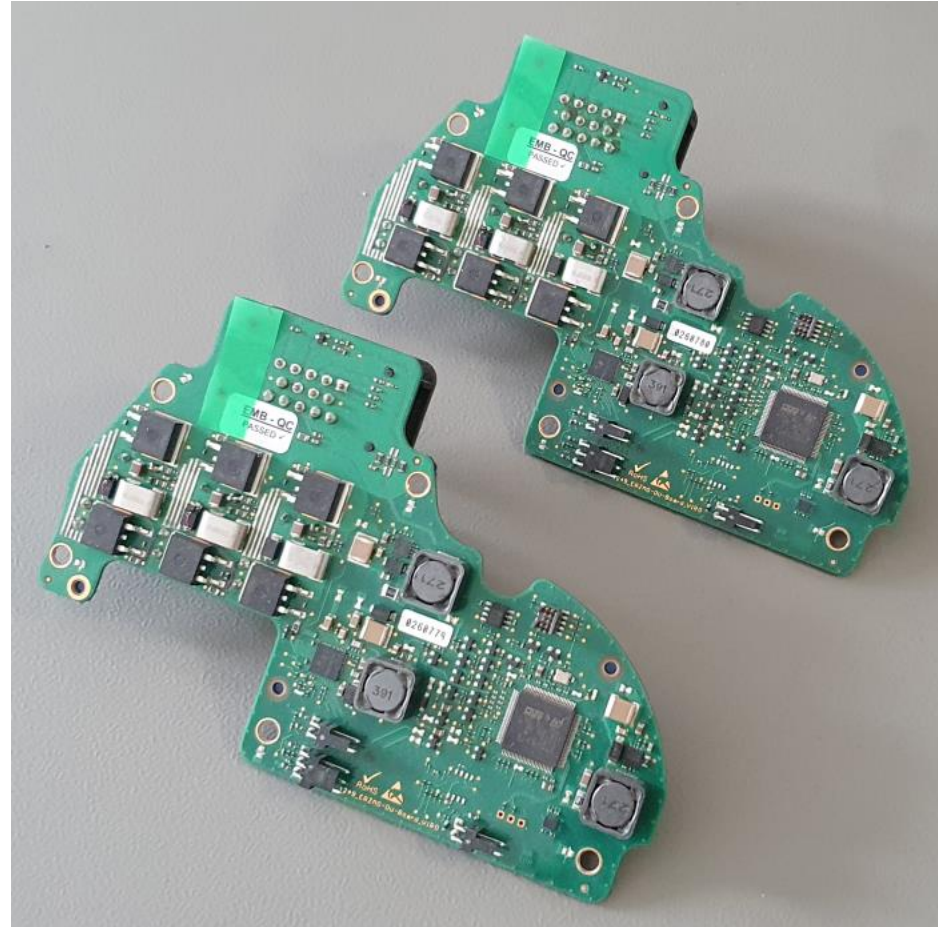

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eMobility Electronics and Software

Features

- BLDC Power Electronics (48V)
- Battery Management Systems
- eBike Controllers (HMI)
- BLDC Motor Control (FOC)
- ARM based
- Mature and in Production
- For LEVs / eBikes / Cranes
- ASIL / SIL capable

Advantages

- No 3rd Party Licenses
- Easy to be modified

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AT YOUR SERVICE

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