



... where ideas turn into success!

### Product development services for Process Automation and Factory Automation

#### The Company

Since 1990, MESCO is successfully realizing development projects in the field of Process Automation and Factory Automation. MESCO Engineering has been founded 1990 in Germany and incorporates actually 42 employees.

#### Make your profit with MESCO development experience

Highly qualified engineers and technicians are using their know-how for your application. Close contacts with customers, flexibility and technical competence are MESCO's key skills.

The MESCO development services:

- System architecture, hardware and software requirements
- Electronic hardware development (analog, digital)
- Firmware development (assembler, C, C++)
- PC software implementation as user GUI (C++, #C)
- Implementation of communication interfaces e.g. Ethernet/IP, PROFINET, PROFIBUS, Modbus, HART, FF, CAN, ASI, IO-Link
- Schematic, layout (several systems in use)
- Prototyping
- Test stands
- Fieldbus laboratory
- Certified EMC laboratory

#### Membership:

MESCO is a member of the following fieldbus organizations:

- PROFIBUS International (PI)
- HART Communication Foundation (HCF)
- Fieldbus Foundation (FF)
- Modbus Organization (Modbus-IDA)
- EtherCAT Technology Group (ETG)

#### Partnership:

- infineon for premium development support
- TUV for certification regarding IEC61508
- itm for PROFIBUS certifications
- Bebro for external product manufacturing (if required)

#### Technology

- Signal- and microprocessors
- Real time data processing
- FPGA Engineering
- Bus systems and fieldbus technology
- Digital control systems
- Functional Safety IEC 61508
- Explosion protection IECEx
- EMC-compatible designs and certification measurement
- Operating system usage

#### Development skills



infineon 32bit Tricore / 16 Bit XE166:

- Functional Safety related electronic design, hardware and firmware development
- Usage of Infineon safety software libraries
- Support of TUV for safety concepts and certification according to IEC 61508 standard

infineon 16bit XE166:

- Standard applications for factory automation
- Low Power and cost effective smart solutions
- Industrial applications e.g. Remote IO, drives, controller

infineon 8bit XC800:

- IO-Link applications
- Smart measurement transmitters, Gateways, Protocol converters
- Compact I/O.