elrest®

Wir steuern
Ihren Erfolg

Company

Company

We manage your success

Our principle is designing and developing environmentally-friendly, low energy systems and components for automation technology. Our strength is the optimal combination of control, regulation, visualization and communication for contemporary system solutions - consisting of electronics, mechanics and software.

For more than 50 years our aim is to realize complete, intelligent electronic systems solutions for leading industrial companies with the highest product quality, functionality and reliability at a fair price, in partnership and in an open cooperation with our customers.

With our innovative standard- or OEM solutions, we strengthen the effectiveness of each individual production process. Our research and development team works continuously to develop new products, and to optimize the existing products for the process chains.

As a medium-sized company we are able to respond quickly and extremely flexible on the specific wishes and market issues.

With our Electronic Manufacturing Service (EMS) we cover up the complete build-to-order starting from the development, the procurement, equipment of printed circuit boards (PCB) up to the assembly of electronic components and systems - all in-house.

The certification according to DIN EN ISO 9001 is part of a continuous quality improvement, which is based on traceability and high transparency. Depending on the awareness of our employees we can further develop and improve this quality in the sense of our customers.

The satisfaction and the long-time loyalty of our customers to the company demonstrate that our self-conception and thus our company philosophy follow the right track.

Make up your own mind. We are looking forward giving you an insight into our company, our services, as well as our products.
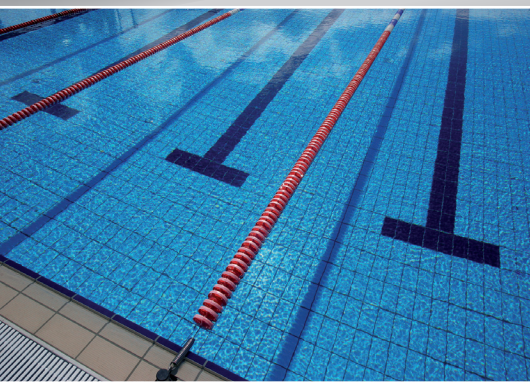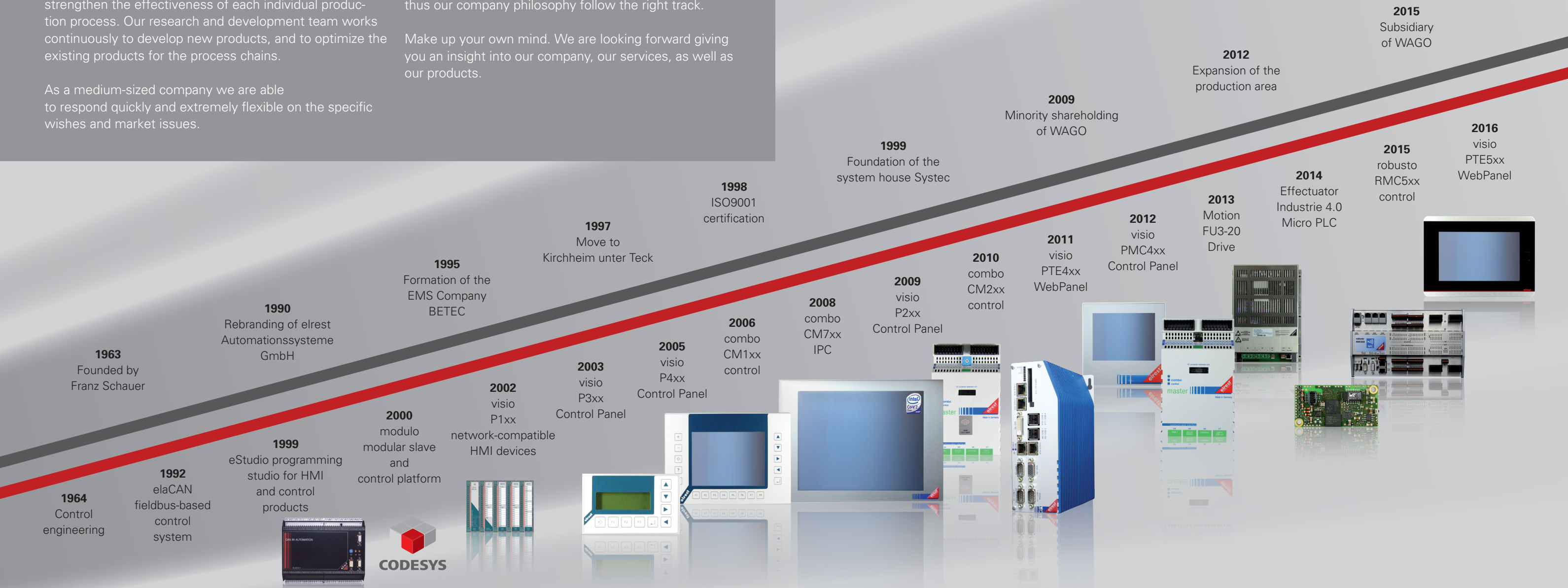
I am proud of our team with highly motivated employees, who satisfy customers with the optimal use of resources and therefore purchase a continuous increase as a goal.

Armin E. Schauer,
Managing Director (CEO)

Customer requirements are the main source for our state-of-the-art technologies in order to create the best-future-oriented solutions.

Gerald Schauer,
Managing Director (CEO)

1963
Founded by
Franz Schauer

1964
Control
engineering

1990
Rebranding of elrest
Automationssysteme
GmbH

1992
elaCAN
fieldbus-based
control
system

1995
Formation of the
EMS Company
BETEC

1997
Move to
Kirchheim unter Teck

1998
ISO9001
certification

1999
Foundation of the
system house Systec

1999
eStudio programming
studio for HMI
and control
products

2000
modulo
modular slave
and
control platform

2002
visio
P1xx
network-compatible
HMI devices

2003
visio
P3xx
Control Panel

2005
visio
P4xx
Control Panel

2006
combo
CM1xx
control

2008
combo
CM7xx
IPC

2009
visio
P2xx
Control Panel

2009
Minority shareholding
of WAGO

2010
combo
CM2xx
control

2011
visio
PTE4xx
WebPanel

2012
visio
PMC4xx
Control Panel

2012
Expansion of the
production area

2013
Motion
FU3-20
Drive

2014
Effectuator
Industrie 4.0
Micro PLC

2015
robusto
RMC5xx
control

2015
Subsidiary
of WAGO

2016
visio
PTE5xx
WebPanel

CODESYS

Consulting
Our technology makes processes much easier and simpler, but it is always only a part of the solution
On your request our employees are pleased to consult you starting conception to application.
By our know-how and our expertise you can save time and cost and thus you come faster to your destination.

From the idea to the product
It is our ambition to develop a product, which fulfills your demands at the best and can also be produced efficiently and cost-effectively. Our products as OEM often bear the name of our customers.
For the products, we rely on latest platform technologies from ARM7 to X86. As well as for housing a wide variety of materials from plastic to stainless steel is being used. We implement powerful development tools such as mentor Graphics, Altium, 2D / 3D SolidWorks ...
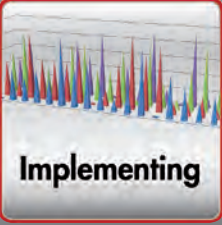
Research and development
Research and development are the basis for our services and products. The quality already starts by the generating a concept within the development. It is based on a strict concept in the very early stage of product development. Our standard is beyond IEC-directives.
Our scope of services includes:
· Concept development with a requirement specification and an functional specification (component- and material selection)
· Create schematic, layout on the basis of the current technologies for
  · Processors (ARM, Xscale, X86)
  · High-Speed communication (Ethernet, USB, S-ATA..),
  · Digital and analog I/O technology
  · High-performance logic applications (FPGA)
  · FPGA and firmware development
  · fieldbus communication (CAN, Ethernet, Profibus, Seriel..)
· Environment-, EMC tests (worst-case analyses, endurance test, stress test, validation in its own model cabins), EN, UL, shock / vibration, sample production and prototyping

On this basis we create control and visualization solutions with integrated analog and digital I/Os as well as the control for stepper applications.

Software development
For a maximum flexibility of our products, a corresponding share of software will be, too. With our experience in our own operating systems and software packages our experts support you in an object-oriented way.
We provide the following services:
· Firmware development for microcontroller
· BIOS adaption
· Integration and adaption of operating systems (µc, Windows CE, Embedded Windows, Linux)
· Establishing of driver concepts and the development of the driver
· User software (eStudio, 3S CodeSys IEC 61131-3)
· Inspection and test software
· Web based technology

Implementing
The validation to the required claims is part of a reliable product.
Our services include the following:
· EMC consulting, and tests (industrial, household, IEC 61131-3, GL ..)
· Environmental Auditing (mechanical, thermal, climatically)
· Certifications and Approvals (CE, UL, GL)
· Operational checks according to the requirement specification (worst-case analysis, stress test, endurance test, combination tests)

„The loyalty of our customers reflects the quality of

our products"

Product Management

Production
Our flexible electronic manufacturing and assembly offer a perfect addition to our development services with a high degree of reliability and economy. Due to the high vertical integration we have a direct influence on the quality and service in our products.
The production processes are designed for smaller as well as for larger product line series. The SMT assemblies are processed under inert gas in the reflow oven, this prevents the development of oxidation and premature failure. All processes are certified according to DIN EN ISO 9001.
· the latest assembly line for SMT and THT
· Reflow and / or selective soldering (ROHS compliant)
· Processing of a wide range of forms (magazines, rods, belts up 0402, BGA, QFP)
· Manufacturing in accordance with IPC-A-610 class 2
· Rework workplace
· Mounting of electronic components and final assembly
· Detailed tests and commissioning of assemblies

Quality assurance
All products pass through several audits before the distribution.
Already before starting the processing, the components will be examined on function and tolerance.
For the optimal quality assurance of our products we apply several different test procedures, depending on the stage. Therefore our test field compiles adapter and programs for the different review mechanisms such as Boundary Scan, AOI, functions-, climate and durability tests.

Material management
For the purchase we set on a qualified and a global acting manufacturer and distributor network. We are flexible because of our close partnership with our suppliers. So we are able by a fast responsiveness to offer our customers an optimal supply situation with a high quality in short delivery times. It is possible to trace the used components. That supports us in our quality management and helps improving the quality of the products continuously.
By logistics we also mean the distribution of the manufactured products, as well as the on-time delivery to all our customers. On request, this can be also stored in-house like a customer's warehouse.
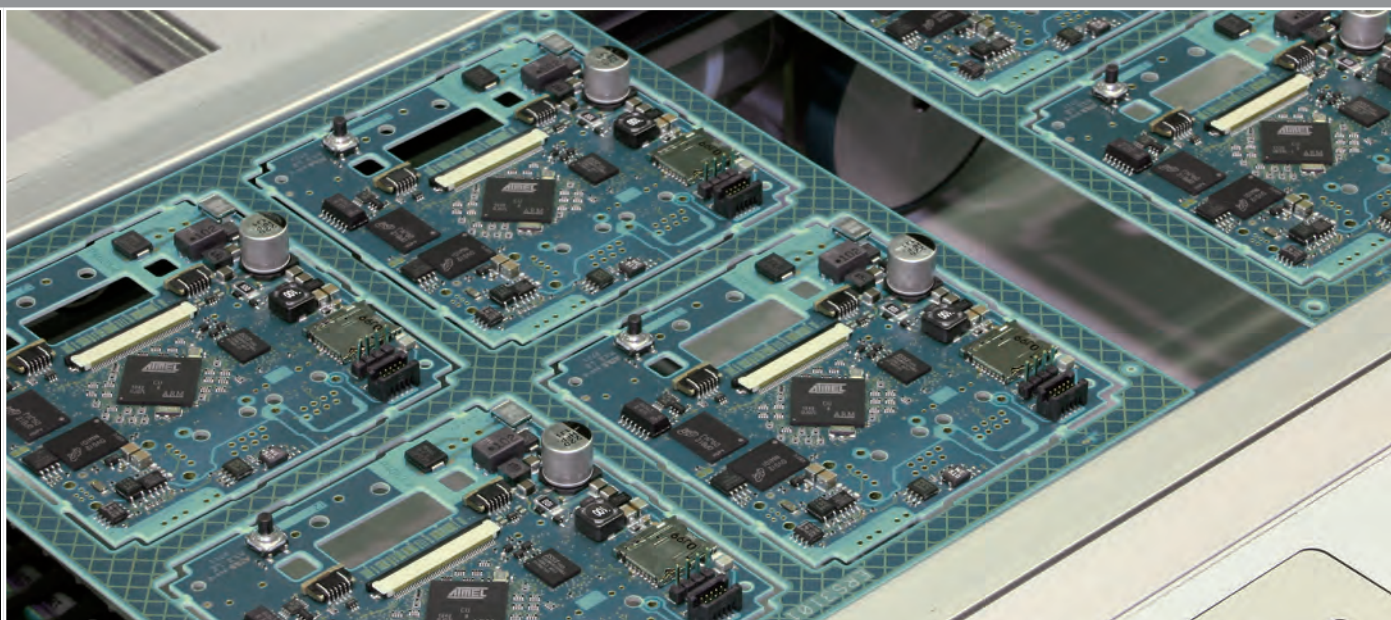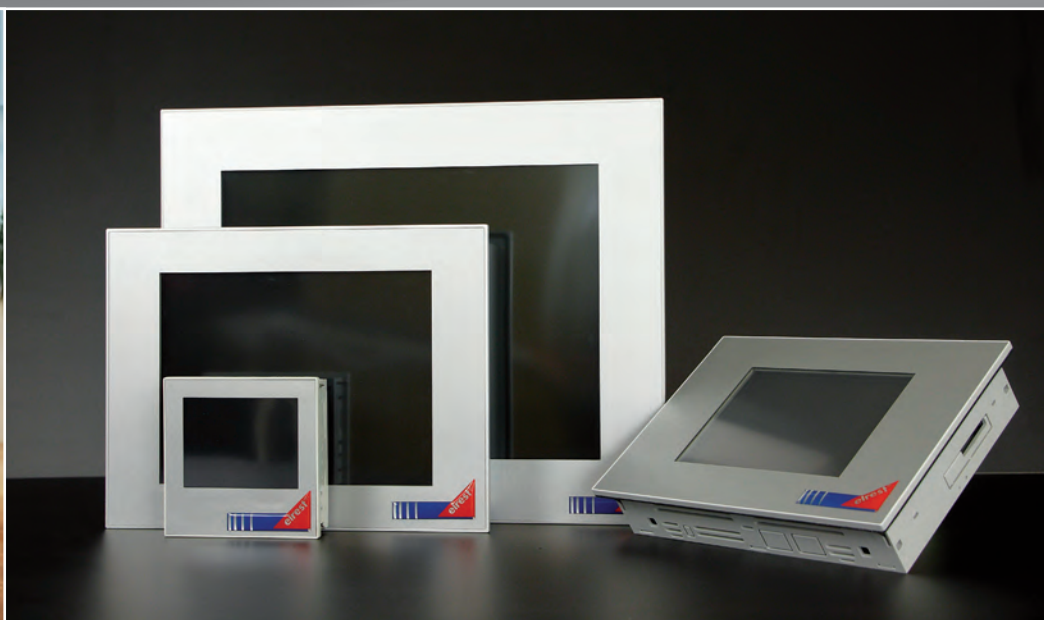
Application
For the optimal use of our products we support you with our consolidated application knowledge. While planning, designing and implementing the complex control and visualization solutions, our technicians and engineers focus on the latest development tools.
· Programming in with IEC 61131-3 (CoDeSys) in ST, AWL, FBD, LD and SFC
· High-level language programming in C++ and C#
· Create the process visualization with ElaDesign and 3S target visualization
· Planning of the decentralized periphery via CAN, Ethernet or Profibus
· Support of the initiation
· Creation of the program documentation

Service and Support
Our company follows a strict service policy. In addition to the hotline there are in-side and out-side product managers, sales stuff and training experts available for our customers, every day, in order to ensure a maximum of customer satisfaction.
For the entry in our product range we offer individual training. Our competent contact person for hotline and sales will be pleased to support your technical questions and to give you useful tips for an optimum utilization.

"Our claim is the comprehensive consulting to our customers,
from the first contact to the support during the commissioning.
We are your partners, you can take our word for."

Sales Director

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Contact

.. Solutions for tomorrow

Whoever wants to survive as a manufacturer today, you have to produce your products quickly, reliably and cost-optimized with consistent quality.

No easy task - unless you have the right partner.

So, if you look for someone who supports you in finding the appropriate auto-mation system and the best solution, you are on the right track with elrest.
We hope that you could get an insight view in our company, our services as well as in our products.
Do you have any questions, wishes or suggestions?
Just get in touch with us:

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elrest – we are always there for you!

You find current information on
www.elrest.de