

# Company profile

For more than fifteen years we are acting as a competent partner to our customers in all interests of automatic control engineering. Seven high motivated and highly qualified coworkers engage themselves for customers out of the most diverse industrial fields. We develop intelligent solutions for tasks of automatic control, measuring technique and factory data acquisition, which are easy to customize and are always open to fulfill new requirements.

The three founders of 1986 are owners and managing directors of the GmbH since 1992.

**IEP** was founded in 1986 by innovative engineers with the core competence in design, development and implementation of software systems, which especially must meet hard realtime constraints. The confidence of our customers and our clear business vision have led to constant growth of the company. The design of local networks and the integration of systems into heterogeneous nets are belonging to our knowledge profile for a long time. We realize modern graphical user environments, based on PC systems, using object-oriented programming languages. The realisation of many projects as complete turn-key-solutions has led to constant growth of our department for hardware development and thus continuously increases our portfolio of efficient hardware products.

With numerous tasks, **IEP** proves again and again that our enterprise in every respect can match with and even outshine large companies on flexibility and customer satisfaction: our customers appreciate custom-made, economical solutions and our ability to complete sophisticated projects with great reliability even under time pressure.

Our customers and we profit from our membership in professional associations, from the cooperation in working groups and within research projects. **IEP** constantly stays up to date: with a clear look into the future we develop and ensure support for new technologies.

**Our house**

**Continuity**

**Flexibility**

**Innovation**

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## Quality from the outset

Our products meet the highest quality standards.

Software development with modern design methods and constant deployment of a version control system with automatic documentation assure the traceability and reliability of our programs. Code revisions and complete coverage function tests ensure quality on highest level.

By archived test reports and standardized test procedures, which can also be provided in coordination with your desires, our hardware is comprehensible to the manufacturing lot. A complete function test for each item delivered is a matter of course.

## Support

Apart from expertise, effectiveness and experience, optimal customer service is our companies primary goal. Aside from reliable and well-designed products, we offer fast and uncomplicated service. **IEP** is serious about delivering first-class service to our customers.

Close co-operation with our customers and flexible reaction to their needs are leading to a rapid realisation of their and our ideas. We put new systems into operation locally and instruct your personnel reliably in their operation. We accompany the deployment of our products with support and consultation.

We will always be competent partners, familiar with your conditions of our products use and all technical innovations at the market.

## Contact

Dipl.-Ing. B. Kroll, operating system design and networks

Dipl.-Ing. A. Hadler, application design and implementation

Dipl.-Ing. K. Koerth, hardware design and field bus systems

P. Lange, manufacturing and purchase

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## Our Offer

### Software development

We develop customized and application orientated software according to state of the art engineering.

### Hardware development

For special applications we develop specialised electronics.

### System configuration

For each application we design and configure optimal control systems build from standard components.

### Networking and network integration

With TCP/IP, Profibus, InterBus, CAN, SINEC-H1, SINEC-L2, InterChange we integrate heterogeneous systems.

### Turn-key solutions

We design complete control concepts and realize projects up to turn-key delivery.

Matured products provide you with tools to realize own projects:

- Development environment for ANSI-C in realtime systems
- PLC Programming system CoDeSys, based on IEC 61131-3
- Programming systems for realtime applications, based on PEARL and ANSI-C
- BDE systems for plant modernization, in particular under consideration of the requirements according to ISO 9000
- Modular control and automation systems based on VMEbus or PBus for custom-made, economical solutions

## Our Products

### RTOS-UH

The fast and comfortable realtime multitasking operating system. We also integrate special hardware into the system.

## Our Tools

### PEARL

Easy to learn and application orientated programming language with realtime elements. We can port the PEARL system also to your hardware!

### ANSI-C

The efficient programming language for systems programming and for demanding realtime applications.

### IEC 61131-3 with CoDeSys

The conventional programming of controls in conjunction with the flexibility of a realtime system.

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# References

Our customers are working in all areas of automation. This overview represents a cutout from the broad spectrum of realized projects; on request we gladly will name a contact person.

Area of application	Project and company
Plant construction	<b>Plant automation with multiprocessor systems</b> Siempelkamp GmbH & CO, Krefeld
Industrialized concrete building	<b>Large scale plotter, Profibus BDE/MDE network</b> control Systemtechnik GmbH, Koblenz
Factory data capture	<b>Access control systems</b> Getronik GmbH, Hannover
Energy supply	<b>Energy distribution</b> Stadtwerke Hannover AG  <b>Wind power stations</b> West control AB, Denmark
Driverless Transportation systems	<b>Vehicle control, traffic regulation, stock management</b> NOELL GmbH, Herzogenrath
Television	<b>Transmission control</b> CLT/UFA, Luxembourg; RTL, Cologne
Product engineering	<b>Laserwelding</b> FhG Institute for laser technology. Aachen
Research and teaching	<b>numerous universities</b>
Industrial electronics	<b>various large-scale installation plant controls</b> ATR industrial electronics, Viersen
Materials science	<b>Mechanical-dynamic spectrometer</b> GABO Qualimeter GmbH, Ahlden
Outer space technology	<b>Experiment data acquisition</b> ZARM GmbH, Bremen
Environmental technology	<b>Laser light scattering photometer</b> Lorenz Meßgerätebau, Katlenburg