Technology for Your Automation

KW-Software GmbH
• Foundation: 1982
• Employees: 52
• Turnover 2008: 6.2 M€
• A Phoenix Contact Company

You create automation equipment.
KW-Software is your partner for efficient software development.
KW-Software: International

We speak your language.
Headquarter in Lemgo, Germany
KW-Software: References
KW-Software: Technologies

Innovative software development around industrial control engineering for over 25 years.

The scalable Software Platform:

- IEC 61131
- SAFETY
- PROFINET
Our technologies are used in many application fields
Plant building

Requirements:
  • Powerful engineering
  • Intuitive handling
  • Open interfaces

Solutions:
  • Data exchange via XML
  • PROFINET networks
Machine building

Requirements:
• Fast movements
• Exact synchronization
• Machine safety

Solutions:
• PROFINET IRT
• Safety in the network
Process automation

Requirements:

• Flexible network structures
• Extensive parameterization
• High availability

Solutions:

• FDT
• Scalable redundancy
Wind power

Requirements:

• Fast control loops
• Effective networking

Solutions:

• Simulation tools with automatic IEC 61131 code generation
IEC 61131: MULTIPROG Engineering

• 5 standardized languages
• Wide range of features
• Complete IEC 61131-3 programming
• Supports D, E, F, SP, I, J, CN languages
ProConOS / ProConOS embedded CLR: IEC 61131-3 Runtime

- Solutions for many CPUs and real-time operating systems.
- Highest performance by processing of native code.
- ProConOS offers efficient and extensive interfaces for simple integration into your control hardware.
ProConOS embedded CLR: Programming in IEC 61131 and C#
ProConOS: Solutions for all platforms

ProConOS Embedded
The portable PLC-Runimesystems for the most different CPUs and real time processing systems

ProConOS Win RT
The Software-PLC with hard realtime and real time extension for Industrial-PCs

ProConOS Win MC
The Software-PLC with PLC-Open Motion Kernel for Windows XP and CE

ProConOS Win CE
The Software-PLC with realtime for visualization-panels & Industrial-PCs

Portability to each CPU and each real time processing system!
ProConOS: Linux History

2000  Start of ProConOS development for Linux with RTLinux
2004  Native Linux for Intel
2005  Native Linux for PPC and SH03
2006  RTAI for PPC
2007  Native Linux for ARM9
2007  Xenomai for PPC
2009  OSADL for Intel
2009  Start of ProConOS embedded CLR development for Linux
ProConOS: Linux Solutions

ProConOS
Optimal for Linux 2.4 and 2.6

Currently available:
• Linux INTEL
• Linux INTEL OSADL
• Linux PowerPC
• Linux SH3
• Linux ARM/Xscale
• Linux PowerPC RTAI
• Linux PowerPC Xenomai
SAFETY: Full Safe Product Line

**SAFEMPROG / SafeOS**
- **Configuration**
  - based on PLCopen safety function blocks
  - for simple safety logic
- **Programming**
  - Programmable IEC 61131 safety logic with the integration of non-safe areas

**SAFEGRID**
- **Parameterization**
  - of safety devices
  - (drives, sensors, etc)

**SAFEFBTest**
- **Automatic Test**
  - of function blocks up to SIL 3

Safety Software components are certified according to IEC 61508 SIL3

[Image of software components and certification logo]
PROFINET
PROFINET: Portfolio KW-Software

- Proven technology components for automation devices and solutions
  - PROFINET IO Controller (Master)
  - PROFINET IO Devices
  - PROFINET IO Engineering
- Engineering services for integration into the customer platform
- Support and Maintenance Services
- PROFIsafe
- PROFINET Device Chip
KW-Software: Thank you for your attention

Reliability and trust are important for us.