



Reduce your time-to-market in the smart industry age

ICT Machine & Systems consulting services, secondment and projects



MACHINE CONSTRUCTION IS ON THE MOVE, GO WITH THE FLOW

We're on the brink of the fourth industrial revolution, also known as Industry 4.0. Whereas the previous revolution focused on automating production processes, the current revolution will be all about end-to-end digitalization of processes. And technologies such as industrial IoT (IIOT) and machine-to-machine communication (M2M) will play a crucial role in this new revolution.

Machine construction companies will experience substantial pressure to introduce innovative solutions. Solutions in the domain of remote monitoring, predictive maintenance and event-driven initiation of (production) processes. This requires integration of machines and devices, but also facilities for controlling these machines from remote locations. And that's exactly what ICT Machine & Systems is specialized in.

CONSULTING, SECONDMENT AND PROJECTS

ICT Machine & Systems provides consulting services in the domain of smart industry, but is also able to realize the proposed solution. We work with stable and autonomous project teams that work in close and well-aligned cooperation. On the one hand, the teams consist of professionals who know what it takes to make a project succeed, for instance project managers and architects. On the other hand, the teams are comprised of technical specialists in the domains of software development, machine safety and connectivity.

This means that we cover the entire field from embedded software and PLC, via application development in Java and .Net, right through to connectivity with Azure cloud.

MAKING YOUR LIFE EASY

You can outsource projects to us on a turnkey basis, which means that we take full responsibility and take care of the innovation risk. We deliver the entire project, including the tooling and a management environment. If you have your own project team and you're looking for specific knowhow and skills, you can also hire our specialists on a secondment basis, including the tooling and management environment.

We provide our services on-site as well as remote, depending on your requirements.

REDUCE YOUR TIME-TO-MARKET

ICT Machine & Systems covers the entire field of embedded software and applications for controlling the machine, such as PLC, HMI and M2M, right through to connectivity with the cloud. Our Machine Control Platform plays a central role in the development of new products and services. Using standard components ensures ultra-short throughput times for creating customized solutions that are tailored to your specific requirements.

Reduce your time-to-market and make sure you're a step ahead of your competitors. Accelerate innovation and benefit from our knowhow and expertise.

ICT Machine & Systems assists you in analysing the options for making your machines connected and easily controllable. We can make a transparent overview of the pros and cons of the various solutions and compile a business case for you.

Once you have decided which solution you want to realize, you can choose to outsource the entire project to us. Alternatively, you can also choose to set up your own project team and get ICT Machine & Systems to support your team.

LONG-TERM RELATIONSHIPS

We prefer long-term relationships with our customers. Sustainable relationships allow us to know one another thoroughly, and they enable ICT Machine & Systems to play a role as initiator and driver of innovation. And this is the reason why we like to invest in our customers.

These relationships are very different from the traditional customer/supplier distribution of roles. We prefer to describe it as a partnership in which we are co-responsible for the results our customer achieves with innovation. We participate in the customer's thought processes, we are critical, we point out possible risks at an early stage, and we are proactive in terms of proposing improvements.

ORGANIZATION CULTURE

ICT Machine & Systems strongly promotes three values: challenge, enjoyment and pride. These three values are closely related. We're constantly looking for challenging projects for our employees, projects that stimulate them to widen and deepen their knowhow and expertise. We have a firm belief: if our employees grow, our customers will automatically benefit and also grow. This growth will result in enjoyable work as well as a strong motivation to improve

ourselves continuously. Success in letting these values prevail will make us proud of the result.

OUR COMPETENCIES

- **Human Machine Interface (HMI)**
 - Application development (C++, C#, .NET, Java)
 - Scada (PCS7, WinCC, Intouch, iFix)
- **Soft PLC (CoDeSys, IEC61131)**
- **PLC programming**
 - Siemens, Beckhoff, Allen Bradley, Mitsubishi, Honeywell, Pilz, ABB, Omron
- **Robot programming**
 - Fanuc, ABB, KUKA
- **Machine safety**
 - SIL (NEN-EN-IEC 62061), PL (NEN-EN-ISO 13849-1), Machine regulations, CE-Marking
- **Connectivity**
 - Serial, USB, Profibus, Profinet, EtherCAT, Ethernet, CANopen, Bluetooth, IrDA, WLAN, ZigBee, RFID, NFC
- **Machine-to-Machine applications, Software loading, remote update, Remote diagnostics**
- **Realtime Operating system & frameworks**
 - Embedded Linux, WinCE, VxWorks, pSOS, OS20, QNX, Nucleus, Symbian
- **Driver development:**
 - USB, flash-cards, LCD, NAND/NOR Flash, keyboard, IRDA, Bluetooth, ATAPI, I2C, Ethernet
- **Application software / Integration activities**
 - C/C++, Java (JSR, J2ME), C#, .NET
 - OO, XML, RUP, UML, Visual Basic, Borland
 - Oracle DB, Oracle designer/developer, Oracle-Streams
 - MS-Windows, SQL Server, UNIX, QNX, Linux, VMS
- **Low-level debugging**
 - Lauterbach, JTAG, GDB

OUR EXPERIENCE

ICT Machine & Systems offers more than 40 years of experience in (embedded) software for machine construction. We have completed over 2,500 assignments for customers in the machine construction industry, with the Machine Control Platform being used by more than 200,000 machine construction companies.

More information? Please contact us using the following contact details:

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