

# ELECTRONICS - SOFTWARE - AUTOMATION - MACHINE DESIGN - VISION



Dosing  
Weighing  
Control  
Diagnostic

Algo GmbH electronic systems  
via Pastura 14  
CH-6983 Magliaso (Lugano)  
Internet:  
Email:

Tel. +41 091 / 6065269  
Fax. +41 091 / 6065279  
<http://www.algosystems.ch>  
[algo@ticino.com](mailto:algo@ticino.com)

## OUR PRODUCTS AND SERVICES

### HARDWARE AND FIRMWARE

- **Hardware and Firmware development based on customer requirements.**  
Standard solutions are not always the best solutions. We offer both standard and customized solutions.
- **Digital, analog and communication electronic boards.**  
High resolution DAC and ADC circuits, customized linear power supplies, IGBT final power stages, high speed over current protection, analog filters circuitry.  
Customized CPU boards design based on several CPU and MPU architectures ranging from 8 to 32 bits.
- **Real time electronics and firmware for applications requiring real time control.**  
High level C programming language with the integration of Assembler code for time critical tasks.
- **Electronics and mechanical adapters for controlling electromechanical machinery.**  
Design of mechanical parts is often required for the integration of the Electronics into the machine.
- **Electronics for remote monitoring and control of machines and systems via Internet or telephone line.**  
Add remote monitoring and control to your machines for remote customer support and troubleshooting.
- **Embedded Webserver electronics for adding Internet capabilities to existing products.**  
Even more devices can be configured and controlled through Web Browser via Ethernet / Internet network.
- **Communication boards for interfacing devices to industrial and office systems.**  
RS232 - RS485 - CAN - PROFIBUS - TCP/IP

### SOFTWARE AND OPERATOR INTERFACES

- **Software development for standard PCs, industrial panel PCs and HMIs operator panels.**  
Customized operator interfaces for an optimized machine control and configuration. Different tasks require different programming languages. We realize reliable, customized and user friendly software applications.
- **Backup of process data and related History rebuilder.**  
Data backup function combined with an History rebuilder software application allows process traceability, data analysis and troubleshooting. Backup files can be sent to you for remote analysis and troubleshooting.
- **Database software applications.**  
Dynamic or static data management and analysis. By using Database programming, data can also be processed by standard applications such as "Microsoft Excel" and "Microsoft Access".
- **Client - Server software applications.**

### AUTOMATION AND ENGINEERING

- **Industrial automation and logistics, SCADA systems, wireless communication, machines networking.**
- **Development of machines and devices focusing on their ease of use and good price-quality ratio.**
- **Renewal of old products, systems and concepts for the current market needs.**
- **PLC based systems and Simatic S7 programming.**
- **Vision systems based on cameras or sensors for process automation and quality control.**

### SERVICES

- **Technical specifications** : Technical support for drafting technical specifications
- **Printed circuit schematics and PCB layout** : Simple and Multilayers based on customer schematics
- **Mechanics - Electromechanics** : Design of mechanical parts with CAD software
- **Web design** : Functional and fast Web design
- **Technical documentation** : User's manuals, datasheets and infosheets

### DOSING SYSTEMS

- **Single and multifeeder gravimetric or volumetric dosing systems**  
These systems are mainly used in the plastic industry, food, extrusion lines, pharmaceutical and chemical industry. Visit our Website section related to feeders and dosing systems for information and references.