Concept, design and integration of electronics and mechatronic systems

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>> General concept, electronic and mechanic implementation, high integration, interconnection, parts definition and functional dispatching (rack, power modules, PCBs, cabling etc.)

>> **Time effective solutions** based on a family of ready-to-use hardware and firmware components which use a modular design. Any bespoke application can be **quickly and easily assembled** corresponding to a particular combination of actuators, sensors or specific requirements

>> Main application: research, development and test prototypes, specific, singular industrial and robotic implementations, educational platforms (student and PhD works), demonstrator (showroom, exhibition etc.)

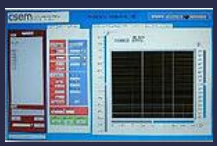
>> Electronic and power electronic design based on the IPC standards and including: schematics, choice of components (enhanced devices library), PCB routing, manufacturing documentation, component management and sub-contractor supervising.

>> Innovative design based on the **CPLD** and modularity, new technology application as distributed approach, VME standard

>> Large international **collaboration and sub-contracting network** allowing to propose different prices and delivery time

>> Mechanical concept, design and manufacturing including: boxes and power modules, front panels, heat-sinks, racks and control modules, assembling documentation

>> Low level control firm and middle-ware: DSP, C language, kinematics, command interpreter, CAN bus, control of actuators as voice coil, Brushless etc, direct programming from Simulink@ and Scilab@



>> Design and implementation of **actuators** integrated with a mechanism and applying permanent magnets