

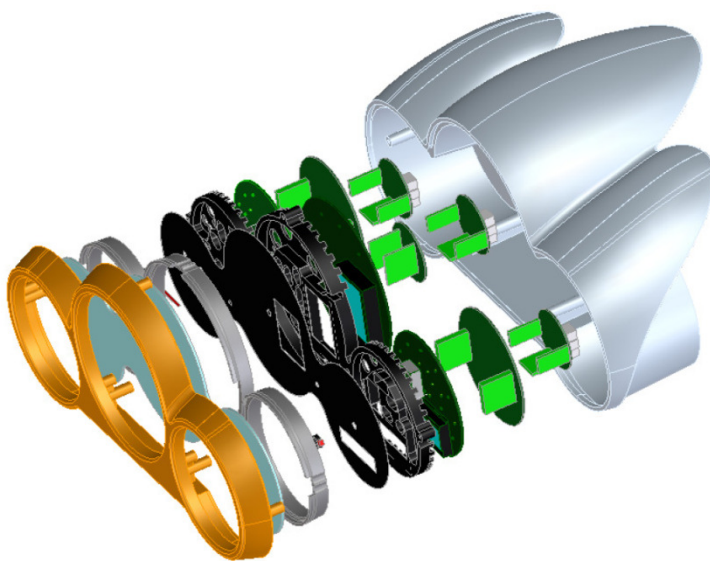
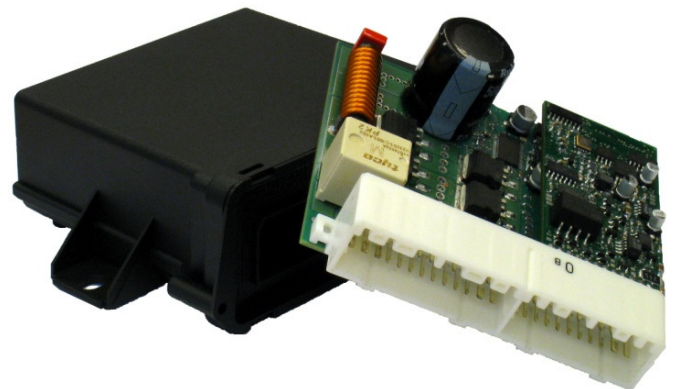
Small series projects using Cosyst components

Especially in the motor vehicle industry the number of niche models, small series and special vehicles increases enormously.

Cosyst is an engineering service provider, developing electronic systems focused on automotive applications. We create concepts and find solutions which are focused on the project goals of our customers.

Apart from the development of electronics for mass production, we are specialized in the realization of electronics for small series and prototype projects. To handle such projects different electronic platforms were developed. In comparison to individual developed electronics, which usually have a low test depth, the usage of established off the shelf solutions rises quality level at lower costs. These standard platforms are extended and improved continuously.

The **Cosyst-SAAM** is a modular High Current Electronic Control Unit, which can read sensor data and control electrical loads. The large selection of input ports allows the capturing of different sensors like revolutions, speed, way, temperature, pressure etc. The output channels can be used for example to drive electrical motors to adjust rear spoilers, electrically driven steering systems, hydraulic pump motors or other electrical consumers like valves. Therefore a broad spectrum of tasks can be realized in the vehicle.



The **Cosyst-MAIC** is a modular concept used to realize individual meter clusters with analog and digital gauges in arbitrary sizes and forms, like round, rectangle, trapezoid with linear or nonlinear scales. An individual implementation can be realized fast and economically. Dimmable multicolor LEDs are available for scales, pointers and warning symbols. Pointer motors with a different number of axles are available.

Any individualizing is possible by the arrangement and combination of the individual elements, the structure of housing and the scale foil.



Other electronic control units like a universal electronic control unit with high flexible I/O and high computing power for sophisticated control tasks or a modular engine control system are in development.

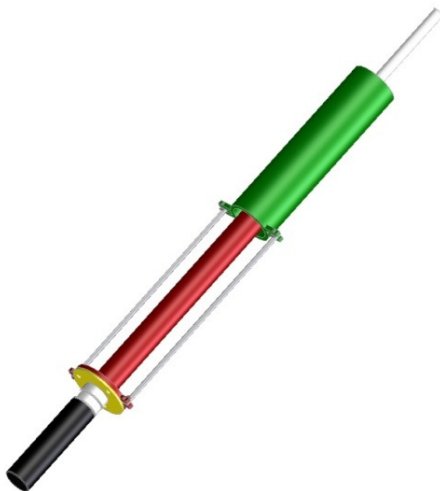
The modular engine control unit is able to run engines with up to 12 cylinders. It contains a modular sensor interface and modular output stages for ignition and injection. Further a large number of additional sensor and actuator interfaces are available.

The engine control unit is running at the test bench in the prototype stage.



Cosyst supports the customer by developing user specific soft- or hardware from the specification phase over vehicle integration up to the series production.

By the modular structure of our systems a project-specific realization of new systems at small effort is possible.



In addition together with our customers and partners we work out total concepts tailored to the individual project requirements. Together we can cover all ranges from power and drivetrain, chassis, brake, lighting and comfort applications up to airbag systems.

To realize mechatronic systems we cooperate if necessary with different partners for construction and mechanical manufacturing. The picture beside shows the actuator for an electrically operated rear spoiler, developed by us.

A medium term goal is to bring together some customers and further project partners to develop an own overall electronic structure for small series vehicles considering aspects like: Costs, weight, adaptation ability.

For the advancement of our platforms we are searching continuously for development partners. We also cooperate in the context of research projects or diploma / master thesis with our customers.

If we could arouse your interest, we would be pleased to be able to discuss a potential cooperation with you.