

# Design (CAD)

Designing is an engineering activity and process, during which - from an idea or specification - a production documentation, needed for a new product, is born.

**Computer Aided Design (CAD)** and the associated software checking and production (CAM) compulsorily turned into an autocrat on the areas of the electronics, mechatronic, engineering by today. On a comprehensive name it is known as **Computer Aided Engineering (CAE)**.

## Connection of Design and R&D activity:

Designing is a necessary activity in technical research and development also, and its essential part too. Generally, the product design is founded on a known and documented results of an already developed technology or on a previously well-tried technology, or on a new R&D project results.

## The planning work is proceeding in more fields of study, on more levels:

- The professional draughting of the task
- Technical specification
- Function description, functional specification, system design
- Division into modules: main product parts, software modules definition.
- Design, mechanics planning
- Electronic circuit design
- Printed circuits layout design
- Software planning, software specification
- Compilation of the Prototype's production documentation
- The planning of a sales documentation, data sheets, leaflets

At our company the designer's workplaces are connected in an **integrated informatics system** to each other and to the CAD systems, CNC machines, 3D printer and laser cutter.

The applied designer's softwares: Solidworks, Orcad, SurfCam, MasterCam.

Procontrol undertakes the full management of complex research-developmental projects, applications and their realisation, or single R&D tasks for inland and foreign country customers.

Furthermore we undertake consultancy, the analysis of private person's ideas and their realisation.

The production works by cautiously regulated, ISO 9001 quality management system attested processes.

Design related questions and requests are welcomed on the [CAD@procontrol.hu](mailto:CAD@procontrol.hu) email address.

