

Product development  
by focused professionals



### **The right idea can generate growth**

Ideas have a limited shelf-life, so you need to pursue them while they can still make a difference in the marketplace. However, with the demands of day-to-day business, assigning the time and resources to pursue ideas can be difficult. In addition, you may not always have all the necessary know-how available in-house.

Compleks Innovation can become your development department. We can handle your concrete development tasks by applying the capabilities of a complete network of competent hardware, software and mechanical design professionals.



### **Start the development now**

We can handle a complete development project – from idea to final product – or we can assist with parts of the development. The extent of our involvement depends on your needs and wishes. Our job is to help you, using a focused and professional product development process.

### **This is how we work**

We want you to know what we are doing. For this reason, we keep you informed about the project progress and the results of our achievements. We highlight all important decisions, so that these can be made jointly.

The project development process at Compleks Innovation consists of four phases. The inside of this folder shows these phases, their components and why each phase is important. Additionally, we list some of the relevant technologies and tools that we use.





## Analysis Phase

To ensure that the development project is kicked-off correctly, we start by doing a thorough, professional analysis of the product and project, focusing on:

- implementation proposals
- relevant technologies
- required development tasks
- associated risks

### Design Competencies e.g.:

- Advanced embedded HW design
- Compact designs with high component density
- Embedded SW design, Application SW design and user-interface design
- Temperature- and environmentally hardened electronics and mechanics
- Innovative industrial design



## Study Phase

In the study phase, we prepare a product proposal and a project plan, including:

- overall design and technologies
- suggested components and designs
- time plan, budget and success criteria
- required resources and competencies

### Technologies e.g.:

- Telecommunication: DSL, IP, Ethernet, optical fiber transmission
- Sensor technologies: Ultra-sound, IR-laser scanners, RFID
- Radio/Satellite: GSM/GPRS, GPS and RTK-GPS
- Software: Linux and Windows operating systems
- Mechanics: Plastic molding, aluminum die casting and sheet-metal design



## Development Phase

In the development phase, we perform the actual product development. This normally consists of:

- determination of the final design – both high-level and detailed
- execution of the actual design projects
- co-ordination of parallel project-tracks, e.g. hardware, software and mechanical design
- choice of test equipment and definition of test environments

### Development Tools e.g.:

- Cadence OrCad/Allegro, Mentor Graphics BoardArchitect
- MATLAB, Octave
- CodeWright, Eclipse
- Pro/ENGINEER, KeyShot
- AutoCAD, Inventor



## Conclusion Phase

When the project is complete, the product is ready for manufacturing, marketing and sales. Before project completion, we hand over project documentation and user manuals, and we do the following:

- assessment of production- and product quality
- clarification of the supply chain
- handling of product certifications
- design of packaging material, if required

### Verification Competencies e.g.:

- Thermal verification: climate testing, thermo-logging
- EMC and Safety: CE, UL, NEBS
- Mechanical environment: vibration, transport, earthquake simulation, IPxx protection ratings

### **About Conpleks Innovation**

Conpleks Innovation is based in Struer, Denmark, and operates worldwide. Our customer base consists of both small domestic companies and large international corporations.

Depending on the nature of the task, we can involve an entire network of competent hardware, software and mechanical design professionals. This way, we can assign appropriate resources, find the best solutions and create a successful product.

### **Contact us**

You are always welcome to contact us and discuss how we can help you to develop your idea – partly or fully – depending on your needs.

