

Promwad Innovation Company is an independent electronics design house, creates new devices and software for the global electronics market, taking a customer's product from idea to mass production in Europe or Asia. Since 2004, we have implemented over 300 projects in consumer electronics, telecommunications, automotive electronics, home and industrial automation, media and entertainment — these are over 3 million manufactured devices.

INDUSTRIAL DESIGN

- Generation of ideas, concept development
- Mechanical design and development of product enclosures, enclosure adjustment to the customer's board dimensions (sketching, 3D modeling and visualization)
- Selection of materials for enclosures
- Prototyping and manufacture of samples (plastic, wood, metal, etc.)
- Manufacture of molds
- Start of production: working with contract manufacturers in Russia, Baltic region and Southeast Asia

HARDWARE DEVELOPMENT

- Selection of a hardware platform with the best combination of cost and performance
- Optimization of an elements base for contract manufacturing and selected supply chains
- Design of different types of PCBs, any size and complexity
- Modeling: 3D, thermal
- Analysis: signal integrity (SI) / power integrity (PI), electromagnetic compatibility (EMC)
- JTAG testing and programming of chips, integrated hardware testing
- Preparation of documentation in accordance with the IPC and GOST requirements

EMBEDDED SOFTWARE

- BSP development
- Optimization and improvement of distributions for specialized solutions: multimedia and data storage systems, server routers for wireless network
- Development of application software
- Development of mobile software and applications
- RTOS, firmware for specialized solutions for industrial automation and transportation
- FPGA programming and design
- Testing and maintenance

START OF PRODUCTION

- Selection of the best production sites: CIS, Southeast Asia and the EU
- Adaptation of design documentation to technology standards of contract manufacturing
- Elaboration and implementation of logistics
- Development and production of functional and in-circuit test stands
- Development of functional test software
- Production of molds / tooling for batch production
- Production of an initial batch

TURN-KEY DEVELOPMENT

We take responsibility for the development and production of a new electronic device from scratch or based on ready-made hardware and software platforms.

Advantages:

- One point of contact: we take risks, you get the finished product
- Experience in implementing turnkey projects
- Partnership programs with component manufacturers and contract production sites in different parts of the world

OUTSOURCING

We carry out specific tasks on the customer's choice: hardware design, software development, enclosure design, launching the product into manufacturing, etc.

Advantages:

- Professional team of over a hundred R&D engineers, programmers, industrial designers, engineers and technology experts
- 300+ completed projects
- Project transparency, IP protection, full accountability

IPTV STB



At the order of SmartLabs, we have developed an IPTV set-top box featuring OTT and PVR. It is also fitted with MPEG-2/4 and 3D/HD video support. The software is based on STLinux. It is a turnkey project.

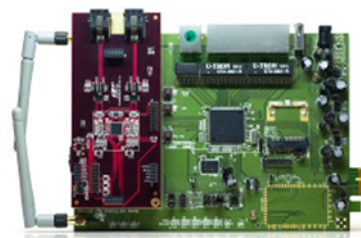
DO-RA



At the order of Intersoft Eurasia, we have developed the mechanical and industrial design of enclosures for the line of DO-RA products for measuring radiation. These miniature sensors are connected to mobile devices with Android or iOS operating systems.

VoIP

Broadband Router



Our engineers designed a subscriber router for providing voice over IP services in broadband networks. This platform can be used for rapid development of network devices with VoIP features + interfaces: FXS, GbE, USB 2.0, and WiFi 802.11b/g/n.