INNOVATION PROMWAD COMPANY | Embedded Systems Development

We focus on

Embedded Linux development
Hardware design using System-on-Chip
User interfaces development for electronic devices

Embedded Software Development

- ✓ Board support packages and device drivers
- ✓ Porting of Embedded OS to a target hardware platform
- ✓ Real-time and DSP applications
- ✓ Middleware and 3rd party software integration
- ✓ GUI and host-target applications
- ✓ Firmware for MCU, MPU, SoC and DSP

Embedded Hardware Development

- ✓ Legacy hardware redesign
- ✓ Circuit diagram, schematic and PCB layout design
- ✓ Solutions based on System-on-Chip
- ✓ Custom processor modules, single board computers
- ✓ CPLD/FPGA design, VHDL/Verilog programming
- ✓ IP cores development and integration

Product Styling and Industrial Design

- ✓ Preliminary specifications
- ✓ Device concept and idea
- ✓ 2D, 3D design
- ✓ Ergonomics verification and testing
- ✓ Integration
- ✓ CAD engineering and modeling
- ✓ Prototype manufacturing
- ✓ Support and maintenance of mass production

Technologies

Hardware Platforms

- ✓ Blackfin
- ✓ ARM
- ✓ x86
- ✓ PowerPC
- ✓ MIPS

Operating systems

- ✓ Linux, ucLinux
- ✓ eCos, vxWorks, ThreadX
- ✓ RTAI, FreeRTOS

Interfaces

- ✓ USB Host/Client/OTG
- ✓ Ethernet 100/1000
- ✓ LCD TFT/STN/OLED
- ✓ CF/MMC/SD
- ✓ LPC, PCI, PCI-E
- ✓ CAN, UART, SSP/SPI/uWire

Multimedia

- ✓ AC97, I2S, S/PDIF
- ✓ DVI, HDMI

Wireless

- ✓ WiFi, Bluetooth, ZigBee
- ✓ IrDA/CIR
- ✓ GSM/GPRS

Full Cycle of Electronic Product Development

Concept and definition of requirements
Hardware platform selection and development
Software and firmware development
Product styling and industrial design

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