

## **Project Management**

- General management of project team
- Work division and task/timeline management
- Budget management
- Inter-department coordination

## **Electronic Engineering**

- Embedded processor and microcontroller design
- FPGA design (Altera, Xilinx, Actel and others)
- DSP design
- General analog circuits design
- Embedded Windows development (WinCE 5/6.x and WinXP)
- Real Time Operating Systems-RTOS (VxWorks, UCOS/II, Thread-X and others)
- Video and audio compression algorithms
- Communications protocols supporting real-time data streaming
- Network stack protocols
- C/C++
- Board support package (BSP) development (WinCE, WinXP, and RTOS support)

## **PCB Layout**

- Board layout
- High level schematic capture
- Library management services
- High speed digital, ECL/RF, controlled impedance, and differential pairs
- Design for manufacturability
- Experienced in many design software platforms (Altium, Cadence, OrCAD, Mentor and others)

## **Prototype Testing**

- Prototype bare board fabrication and assembly
- Custom testing suite designed to verify prototype to product specifications
- Functional analysis, in-circuit testing, DFM/DFT analysis
- Engineer and designer ready "Prototype Capability Report"

## **Pre-Production**

- Comprehensive engineer and designer documentation review
- Verified "Prototype Capability Report" matched to project specifications
- Verified manufacturing files
- Production review

## **Production Level Manufacturing - Fabrication and Assembly**

- Bare board fabrication
- Parts procurement
- Component assembly
- SMT manufacturing and mixed technology
- Quality Control Program—X-ray and automated inspection
- Quick turnaround builds