

## Here's what some of our clients are saying...

"Highwood's contribution to software development has been exceptional. Their experienced staff can tackle any problem from development process definition to product validation. Highwood's familiarity with software development in the medical device industry has been especially helpful to us. I would recommend Highwood without reservation."

Michael J. Colgan, Ph.D., Director of R&D,  
Alimenterics

"Highwood assisted us on a mission to bring our power quality instruments to the internet. With their in-depth knowledge of networking, embedded systems, and windows application development we have been able to achieve this goal. Highwood is a responsive organization, and ranks 5 stars."

Craig Gruber, VP Engineering,  
Dranetz-BMI

"Highwood Technologies solved several difficult to reproduce problems in our communications products for us. The organization has a wide range of embedded expertise. I highly recommended Highwood Technologies for their skill, quality work, and professionalism."

William Hom, Software Manager,  
Milgo Solutions



Software Development  
Embedded Systems & Windows®

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## Background

Highwood Technologies, Inc. develops software for embedded systems and Windows®.

Since the early 90's, we have been assisting clients with the challenges involved in developing embedded software. Recognizing that our clients needed to interface their embedded systems to Windows applications, Highwood develops software for both markets. Further, Highwood provides a strong background in software development processes to better serve our clients .

## Services

*Highwood provides the following services for your development needs...*

### Project Management

- ⚡⚡ Scheduling
- ⚡⚡ Software Configuration Management
- ⚡⚡ Software Development Procedures

### Development

- ⚡⚡ Functional & Software Requirements
- ⚡⚡ Architecture
- ⚡⚡ Design
- ⚡⚡ Implementation

### Testing

- ⚡⚡ System, Integration & Unit

### Review & Audit

- ⚡⚡ Requirements, Design, Code & Test

## Mission

Highwood uses proven technologies to address today's development needs, and we...

**...endeavor** to practically employ these technologies using tools that are readily available.

**...have demonstrated** experience in all aspects of software development.

**...are ready** to transform your concept into a deliverable product.

## Skills

Design	Rational Rose & Describe
Languages	C/C++, Visual Basic & assembly languages
Software Configuration Management	StarTeam, SourceSafe, Source Integrity & PVCS
Software Tools	Simulators, code coverage & complexity metric tools
Hardware Tools	Emulators, logic analyzers & protocol analyzers.
Processors	Motorola (68K, 683xx), Intel (x86), Microcontrollers & DSPs
Desktop Operating Systems	Windows & Unix
Real-Time Operating Systems	VRTX, PharLap ETS, VxWorks, PSOS & custom
Drivers	FDDI, ARCnet, SCSI, A/D, D/A, I/O port, printer, graphics & serial
Protocols	TCP/IP & ATM

## Projects

*Here are some of the projects we have assisted our clients with...*

### Patient Monitoring and Life Support Equipment

- ??Developed a Windows application that enables doctors and clinicians to remotely monitor physiologic waveforms and parameters on an Intra-Aortic Balloon Pump (IABP). Responsible for all project management activities.
- ??Integrated blood oxygen saturation sensing technology into an existing class II medical monitor.
- ??Developed unit test framework with C++ templates to stimulate branch paths in software.
- ??Developed real-time, deterministic kernel for TI34020 processor.

### Power Quality Instrumentation

- ??Developed a general-purpose communication framework for Windows and an embedded system.
- ??Integrated TCP/IP protocol stack, enabling the deployment of the customer's instrument on the internet.

### Terminal Interface Equipment

- ??Developed Visual Basic application to measure RGB response of CCD camera.
- ??Reviewed software design and implementation, and performed data flow analysis on DSP image processor.

### Medical Diagnostic Equipment

- ??Created and implemented Software Policies for a Startup Medical Company for its initial FDA 510K Submission.

### Semiconductor

- ??Extended the functionality of a VXD driver for a PC-based TV tuner.
- ??Developed Windows utility programs to assist third party hardware developers.