

## Software and Test System Development

Since 1991, DDL OMNI Engineering has developed successful custom PC-based test and measurement hardware/software systems, specializing in LabVIEW system integration. Whether a system or application is destined for the research lab, factory floor, or military vessel, the DDL OMNI software and test system development team offers superior skills and experience to develop and deliver **robust** and **highly capable** products.

With a Certified LabVIEW Architect (CLA) and two Certified LabVIEW Associate Developers (CLAD) on staff, our engineers have extensive LabVIEW application development experience, as well as MATLAB, TestStand, LabWindows/CVI, C, C++, and other programming skills. DDL OMNI software engineers have particular expertise in efficient implementations involving complex numerical and acoustic analyses, data presentation, automated report generation, and parallel processing.

Our projects encompass the full application development life cycle—from requirements definition, through development, test, deployment, and support. Defined but flexible software development processes and tools (such as source code management and issue tracking applications) ensure our customers' requirements are fully met and issues are promptly addressed. These tools also enable robust project planning and tracking. Additionally, our technical writing staff produces professional requirements documentation, user guides, technical manuals, and written procedures to ensure that delivered systems are utilized at their full potential.

Computing hardware, instrumentation, and communications interfaces are integral to any test system. Whether an application demands portability, ruggedization, multiple interfaces, or other challenges, the DDL OMNI team has the experience and expertise to select and build a high-performance system.

### Our work encompasses a variety of hardware and application classes:

#### Hardware

- Analog/Digital, Input/Output, Signal Generation and Acquisition
- PXI, MXI, ExpressCard, Rack and Stack
- Fibre Channel, Ethernet, GPIB, Serial
- Acoustic, RF

#### Applications

- Portable Systems, Shipboard Systems
- Hardware in the Loop
- Automated Reporting
- Manufacturing Test, R & D Lab, Military
- Interface Driver Development



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