# LabVIEW

The most productive development environment for test and measurement

LabVIEW is a graphical programming environment engineers use to:

- Accelerate the development of flexible test systems
- Automate and control any instrument
- Perform data acquisition, analysis, and report generation
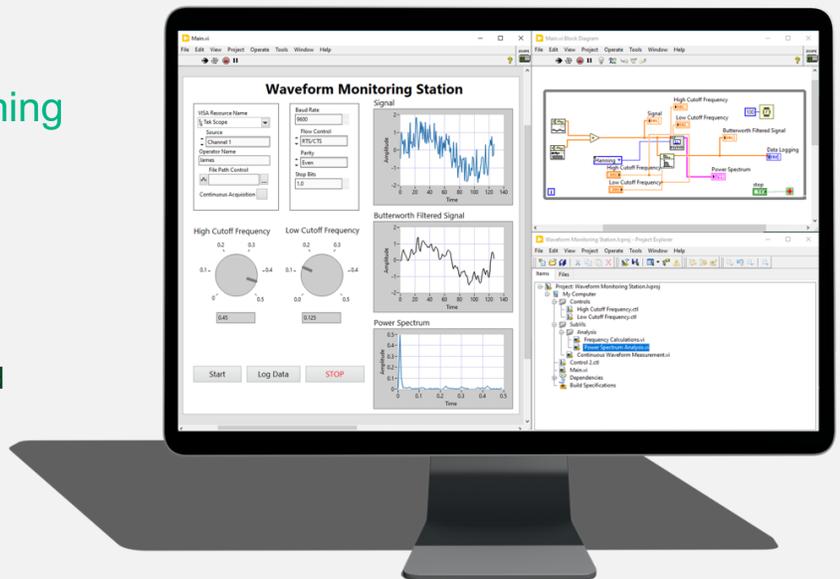
The Benefits of Standardizing on LabVIEW

9x

Faster Development Time

80%

Code Re-Use Across Projects

50%

Reduction in Maintenance Costs

Develop Automated Test & Measurement Systems With LabVIEW

Maximize Productivity

- **Graphical Programming**— Visualize your test system with a natural flowchart-like data flow.

- **Customizable User Interfaces**—Create custom user interfaces with pre-built objects for real-time data display, user input, and interactive analysis.

- **Active Debugging**—Detect errors faster as LabVIEW re-compiles code after every action so you can easily identify and resolve problems. No last-minute surprises.

Integrate Everything

- **Hardware Access**—Connect to any piece of hardware with thousands of drivers for third-party instrumentation.

- **Code Re-Use**—Call existing IP written in Python, C, MATLAB®, .NET, and VHDL from your LabVIEW code.

- **Protocol Support**—Exchange data between applications using TCP/IP, UDP, serial, IrDA, Bluetooth, Modbus, SMTP, and many more.

Increase Capabilities

- **Real-Time and FPGA Modules**—Utilize add-ons for applications that require embedded hardware and FPGA systems.

- **Automated Reporting**—Share test results by generating reports for Microsoft Office or writing to a database, such as, MongoDB.

- **Application Builder**—Create and deploy your code as stand-alone applications for other to use, in just a few clicks.

Ensure Your Success

- **Learning**—Don't know how or where to start? We have flexible training options, tutorials, and online courses to help you with creating your first application, acquiring data, connecting to hardware, and more!

- **Community**—Join a strong community of over 300k users. Rely on an active online network and colleagues for advice. Over 30 years in the making.

- **Support**—Get help when you need it. Every purchase of LabVIEW includes access to degreed engineers who are ready to speed up troubleshooting.
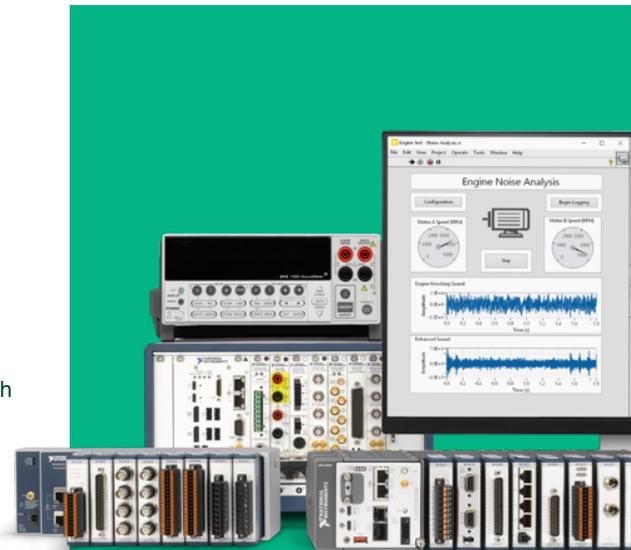
> "The move to a COTS approach using PXI and LabVIEW was critical to this production-test success at Philips. The combination of best-in-class modular hardware along with industry-standard software was pivotal to the millions of dollars and hundreds of hours saved in production test engineering"
>
> -Neil Evans
> Senior Manager, Philips