PROEKSPERT

Software, design and data services

Industrial product test automation with LabVIEW and TestStand

We help your R&D team drastically reduce testing cycles – from months to days

Device security	Cloud connectivity	Apps and portals

Achieve faster, scalable, and more reliable industrial product testing with Proekspert's tailored solutions powered by NI LabVIEW and TestStand frameworks.

We collaborate with R&D teams to shorten testing durations, increase precision, and optimize workflows for long-term success.

Why Proekspert

With **over 20 years of expertise** in industrial test automation, we are a trusted partner for R&D teams globally, turning complex challenges into scalable opportunities.

Key features and benefits of our service

We help R&D teams automate industrial test cycles with reusable tools and frameworks, enabling scalable, precise, and faster testing.

Here's what we deliver

Custom solutions

Built on NI LabVIEW and TestStand frameworks

Modular automation tools

Tailored to meet the needs of industrial test labs

Enhanced precision and scalability

For global, multi-location setups

Proekspert's tools and innovations

Meta-language tool for TestStand

- Enables human-readable test step descriptions.
- Simplifies creation of parameterized tests using text files.
- Reduces complexity for developers with limited TestStand experience.

Dynamic firmware flashing tool

- Automates device recognition and parameter updates.
- Simplifies flashing operations while reducing error rates.

Optical character recognition (OCR) tool

- Captures and processes noise-free text from bitmap images in milliseconds.
- Includes AI for custom library enhancements tailored to specific testing needs.

Graph generator for measurement result reports

- Provides instant visual insights from collected test data.
- Fully integrates with LabVIEW and TestStand workflows.

Reusable framework components

- Libraries for developing test automation tools in LabVIEW.
- Features intelligent Vi editor syntax, boosting efficiency and flexibility.

How it works

At Proekspert, we ensure a transparent, collaborative process designed to align with your unique goals.

Step 1
Discovery
Understand your current testing workflows and challenges.

Step 2
Test planning
Design scalable, accurate custom test cases using prebuilt frameworks.

Step 3
Test execution
Ensure repeatable, precise results with real-time insights.

Step 4
Reporting & optimization
Provide actionable reports and data for continuous improvement.

Case study

A trusted partner for 20+ years in device testing success

For over two decades, Proekspert has partnered with a leading device manufacturer to implement, refine, and scale tailored testing solutions that address critical challenges. This long-term partnership demonstrates our ability to evolve with our clients' needs, delivering measurable ongoing improvements.

Years saved with regression testing automation
Automated workflows radically reduced regression testing timelines, saving time and improving precision as the leading device manufacturer expands its product variants.

Enhanced workflows with automation
Over 70% of testing tasks have already been automated, significantly reducing manual effort and enabling faster, more reliable decision-making. Continued collaboration focuses on exploring new automation opportunities.

Global collaboration achieved
Proekspert remains an integral part of the client's international team, sharing physical test benches, labs, and scripts across the US, Europe, and Asia to deliver consistent testing outcomes for new products and variants.

Results of our solutions

When partnering with Proekspert, you gain the following deliverables:

- **Accelerated testing durations:** Turn weeks into days for efficiency.
- **Scalable testing systems:** Adapt your processes to evolving needs.
- **Factual input for R&D strategy:** Data-driven insights for smarter decision-making.

This partnership reflects our commitment to innovation that grows alongside our clients.

We value long-term partnerships. Notable examples are Danfoss, with whom we have been cooperating for 20+ years, and Stiebel Eltron.

Our notable clients

Danfoss   STIEBEL ELTRON   Thermia   KUEHNE+NAGEL   ERICSSON

Get in touch

Let's discuss how we can streamline your testing workflows and adapt our solutions to meet your team's unique needs. Proekspert combines decades of expertise with advanced tools built for LabVIEW and TestStand, creating powerful strategies that drive scalability, precision, and efficiency.

Visit our website for more:
proekspert.com

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