

NEW PRODUCT VERIFICATION & VALIDATION

Quality & Reliability

Deliver a dependable product at scale, while creating and keeping loyal customers.

THE CHALLENGE

Teams bringing a new technology product to market are focused on design, prototyping and building, which leaves little time for the thorough validation that scaling depends on. When development starts without clear requirements, the result is often repeated redesigns and costly delays.

HOW PRG HELPS

Our hands-on experts help you define clear requirements from the start, surface design risks early, and prove your product through verification, validation and long-term reliability testing, minimizing field issues and returns and raising your odds of first-pass design success.

Core Capabilities

OUR EXPERTS HELP YOU WITH

- ✓ **Clear Product Requirements**
Define clear, measurable requirements from the start
- ✓ **Design FMEA**
Identify design risks and prioritize improvements early
- ✓ **Structured Development Process**
Phase gates, design reviews and design rules
- ✓ **Verification & Validation**
Prove your product performs as specified
- ✓ **Long-Term Reliability Testing**
Plan and run tests for current and future needs

YOUR PROGRAM INCLUDES

- ✓ **Built-In Best Practices**
Definition and planning practices embedded in your team
- ✓ **A Prioritized Plan**
The activities that most improve your process
- ✓ **Trusted Partner Network**
PRG's partners and external test labs fill any gaps
- ✓ **Supplier Quality**
Reliability requirements through your supply chain
- ✓ **Fractional Leadership**
Quality and reliability leaders, exactly when you need them

What Our Clients Say

“

PRG was an outstanding partner throughout the HAPS-200 volume production effort. ... Their expertise in NPI, manufacturing readiness, and quality systems was instrumental to our success.

Robert Bisailon, VP of Operations, Synopsys

“

Working with PRG was a game-changer for Gradient. Their expertise in NPDI provided the structure and clarity we needed to navigate the complexities of our product development process.

Jeff Rosen, COO, Gradient

Our Approach



What We Deliver



Success Story: Gridware

RELIABILITY PROGRAM

Built from the ground up

With thousands of first-generation devices in the field and a next generation in development, Gridware engaged PRG to build a comprehensive reliability program. In an eight-month engagement, PRG:

- ✓ Designed and set up an in-house lab with temperature/humidity chambers and battery cycling
- ✓ Coordinated accelerated testing at third-party and CM facilities, with root-cause analysis
- ✓ Defined supplier quality requirements and supported CM selection
- ✓ Helped recruit and train in-house reliability engineers

Test early. Ship reliable.

Failure rate

TIME →

Early failures Useful life Wear-out

“...an essential partner in scaling our business with quality built in from the start.”

Jim Reich, Director of Hardware Engineering, Gridware

Key Benefits



Ready to build quality in from the start?

Talk to a PRG quality and reliability expert about your next product.

Get In Touch at prgnpi.com/contact →

Go deeper: White paper, *The Role of Requirements in New Product Development*