

# Robust Systems Implementation

**Nutek, Inc.** is your source for World Class system optimization, validation and implementation. We are uniquely positioned to help you with:

- ✓ **New Products:** Performance optimization, validation and certification
- ✓ **Existing Products:** Nail the real causes of persistent high scrap and warranty
- ✓ **Production Processes:** Correct unreliable processes/optimize processes



## With our implementation service, you achieve:

- Reduction in variation in products and processes
- Enhanced product performance and reliability
- Reduced field cost for warranty and service
- Accelerated certification for federal, state or customer requirements

Try it **RISK FREE**: We have been doing this for 20 years. We are so confident in our process that we make this offer:

“Try it and if you are not satisfied, all you pay is a nominal data handling & travel cost”.

## ROBUSTNESS

Nutek helps organizations dramatically reduce the cost of designing and developing & producing robust world class products and services.

A product, service or process is robust when it performs perfectly to user expectations for its entire design life, even in unpredictable adverse circumstances.

An example of robustness is the McDonalds fast food company. The company, not known for gourmet meals, is famous for its signature “Big Mack and Fries” which look, taste and feel the same anywhere in the world. Another example is the Toyota Camry. To many people the Camry is boring, but it outsells any other automobile in the country, because it consistently does what its owners expect for as long as they the own it.

The number of variables that must be considered in products and processes, prior to launch, is large. Consequently, a comprehensive test program can be lengthy and very expensive. Indeed some companies, when faced with the cost and duration of rigorous testing opt instead to take short cuts and risk damage to reputation, profitability and even long term survival. Nutek has addressed this challenge. Nutek provides a specialized service that reduces the cost of design optimization and validation testing to such a low level that it can be afforded by any quality conscious company, big or small.

## IMPLEMENTATION PROCESS

Companies use Nutek’s support to layout experimental plans for both products and production processes and to analyze the results. This is achieved through the use of Nutek’s proprietary Qualitek-4 analysis software which is developed from DOE (Design of Experiments) technology and the work of Dr. Genichi Taguchi. Qualitek-4 dramatically reduces the number of experiments necessary to achieve optimization, thereby slashing both cost and duration. In addition Nutek employs the Taguchi QLF (Quality Loss Function) to determine the likely cost effect of individual test results. The output is a set of critical design parameters for both products and associated processes. Client companies can then convert these parameters into intelligent tolerances for size, strength and performance and achieve truly robust world class products or services.

- Mike Comerford & Ranjit Roy

**NUTEK – brings: Focus – Speed – Efficiency and Closure to your Robust Design Projects**

[www.nutek-us.com/wp-robust.html](http://www.nutek-us.com/wp-robust.html)

*Be sure to check out our client list of world class companies.*



**Nutek, Inc.**

3829 Quarton Road  
Bloomfield Hills, MI 48302-4059, USA. [www.Nutek-US.com](http://www.Nutek-US.com)  
Tel: 248-540-4827 [Support@Nutek-us.com](mailto:Support@Nutek-us.com)