



Build to Last. Engineer to Trust.

Quality and Reliability Engineering Services

Quality is the Foundation of Engineering

At Powersoft19, we engineer hardware that performs under pressure—day after day, year after year. Our Quality and Reliability Engineering services are designed to eliminate defects, reduce risk, and ensure compliance with the most demanding standards. From design verification to field data analysis, we embed quality into every phase of your product's lifecycle—so you deliver not just functionality, but trust.

Challenges Businesses Face Today

With complex systems and increasing regulatory scrutiny, many organizations struggle to:

- Maintain consistency across development and manufacturing
- Predict failures or field issues early in the design cycle
- Meet safety, functional integrity, and durability benchmarks
- Prove compliance with international quality standards
- Scale quality processes without slowing development

Our Approach? Design-In Quality. Engineer-In Reliability.

We apply a structured, risk-based quality approach built on standards like ISO, IEC, IPC, and MIL. Our engineers work hand-in-hand with your design, manufacturing, and service teams to ensure that quality is never an afterthought. Through robust analysis, qualification testing, and predictive modeling (including AI-driven tools), we ensure your product performs flawlessly across its intended lifecycle.

Services We Offer

- Design for Reliability (DfR), Design for Test (DfT)
- Requirements traceability and validation
- Component and materials quality assessment
- Process capability (Cp, Cpk) and statistical quality planning
- Failure Modes & Effects Analysis (FMEA, DFMEA, PFMEA)
- Failure Rate Prediction (e.g., MIL-HDBK-217, Telcordia SR-332)
- Accelerated Life Testing (ALT), Highly Accelerated Life Testing (HALT)
- Mean Time Between Failures (MTBF) & Mean Time To Repair (MTTR) modeling
- Functional testing and qualification support
- Environmental, shock, vibration, and thermal testing
- Compliance support (CE, UL, IEC 61508, ISO 9001/13485/26262)
- Production Part Approval Process (PPAP) and First Article Inspection (FAI)
- Predictive failure analytics and anomaly detection
- Field data logging and reliability modeling
- AI-assisted test planning and results interpretation
- Automated documentation and compliance reporting

Why Work With Powersoft19?

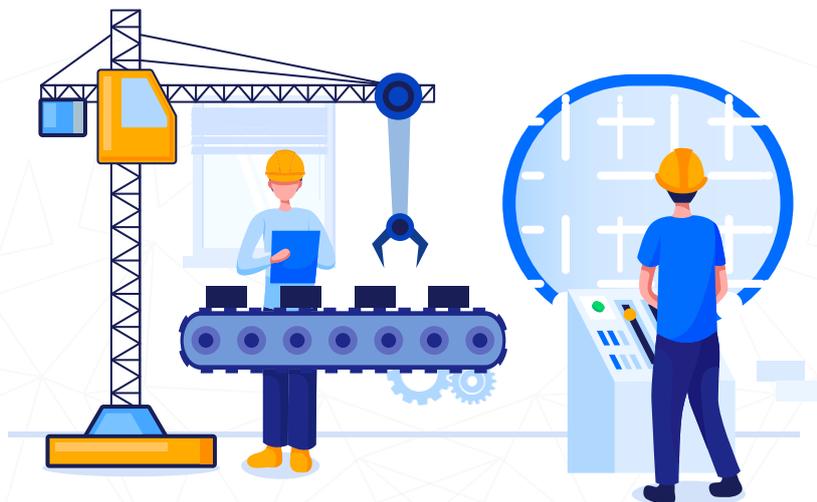
- Deep experience in safety-critical and high-reliability systems
- In-house labs and simulation tools for testing and modeling
- Compliance with IPC, ISO, IEC, and MIL standards
- AI-enhanced reliability predictions and test automation
- Cross-functional team alignment across design, QA, and support
- Trusted by OEMs in defense, automotive, industrial, and energy sectors

Trusted Hardware. Lower Risk. Higher Confidence.



Make Quality a Competitive Advantage

From first prototype to final production, let *Powersoft19* help you engineer hardware that stands the test of time—with reliability you can measure and quality you can prove. Explore our website to find out more and connect with our team today.



Contact Us

Drop us a line and let us know what we can do for you. There is no limit to what can be made possible with our passionate team. Here are some examples:

- Come up with ideas to solve challenging issues faced by your business.
- Execute complex project/product ideas.
- Take the burden of managing legacy products off your shoulders.
- Provide a skilled project team to augment your in-house resources.
- Provide consultancy regarding industry standards and market trends.
- Design a customized partnership model with *Powersoft19* that empowers you to beat the competition.



USA/International:

 www.powersoft19.com
 info@powersoft19.com

Europe:

 www.powersoft19.eu
 info@powersoft19.eu