Today, a single, simple mistake can derail a complex project and cost millions of dollars. Relying upon physical prototypes or sophisticated simulation tools to verify designs reactively usually uncovers simple errors, that should have been caught earlier, requiring weeks of effort to identify and fix. In addition to the “technical debt” that undetected errors may force you to pay, other daunting challenges abound. Increasingly complex technical requirements, harsh environmental constraints, and the lurking possibility of design churn - all compounded by highly compressed TTM needs, pose demanding questions to even the most experienced design teams - questions that often require targeted guidance in complementing and updating design processes as the answer.

Mentor’s “shift-left” design methodology integrates tools to proliferate a more proactive verification process throughout the system design enabling designers to better find and fix errors at the point they are introduced.

To accelerate the realization of the benefits of “shift-left”, we offer additional guidance via services to help you implement these quickly and efficiently, enabling you to achieve better first time quality with the Xpedition toolset:

**Xpedition Consulting and Methodology Services** – provides customers with consultation, implementation plan and training on production-proven methodologies for the Xpedition family. This is particularly useful for transitioning PCB design to Xpedition from other PCB solutions.

**Valydate Consulting** – offers expert guidance on the real-world use of Xpedition Valydate, including coaching, knowledge transfer and refinement of customer’s Valydate tools and environment.

**Valydate Schematic Analysis** – a turnkey service that offers MGC collaborate with customers to analyze schematics, identify problems and propose practical remedies.

**Key Benefits**

- **Xpedition Consulting and Methodology services**
  - Smooths transition to the full Xpedition PCB flow
  - Eases High Speed simulation and analysis
  - Streamlines generation of files for manufacturing

- **Valydate Consulting**
  - Expert guidance in identifying and updating customer practices in the use of Xpedition Valydate

- **Valydate Schematic Analysis**
  - Reduces interval and effort needed to verify schematic errors
  - Enable shrinking of manual inspection and internal review processes
Mentor Consulting Services

Scalable, repeatable, and reliable
Our scalable, repeatable assessment and verification processes, proven through years of successful execution, ensure customer success in enabling a Shift—Left methodology.

Mentor Consulting Services address your PCB design challenges via:

- **Definition and implementation of best practice methodologies designed to maximize your design efficiency**
- **Detailed analyses geared to find errors at the earliest point of injection**
- **Collaboration aimed at minimizing design risk, reducing cost, and meeting tight schedules**
- **Teams offering significant real-world experience with meeting today’s challenging design and environmental requirements**

Related Services

- **Valor NPI**
  - Services designed to maximize the utility of Valor NPI for accurate, cost-effective, and efficient product introduction
- **ECAD Data Management (EDM)**
  - Implementation and practices to ensure efficient creation and management of component, design and library data
- **High Speed Design**
  - Collaboration and consulting in addressing signal integrity, power integrity and interconnection effects in board & systems design
- **Systems Design Methodology**
  - Offering designed to help you achieve optimum productivity in multi-board system design

Your Mentor account representative can help you construct a Services plan drawing from one or multiple Mentor Consulting Services, managed in a way that best meets your organization’s goals.

Ready to Talk?
Contact your Account Representative or email us at mentor_consulting@mentor.com