Mentor Electronic Board & Systems (EBS) Consulting Services combine best practices and established technologies that apply to system engineering, data management, analysis, board design flow, assembly and manufacturing.

To aid in increasing your productivity and profitability, we offer three classes of services: consultation, methodology, and analysis. Consulting offerings provide guidance and strategy to maximize the effectiveness of your design flow. Methodology Service provide consulting and implement automation capabilities within your design flow. Our analysis offerings are devised to aid you through analysis of your individual designs. These services cross multiple facets of System and Board design:

**System Design**
System design services help customers to achieve technical requirements for all PCB designs. Services include:

- **System Design Consulting** – helps customers get maximum usage from Mentor’s PCB tools with on the job guidance and training, plus tool and environment optimization.
- **System Design Methodology** – includes assessments and tuning of methodology, optimizing the environment and workflow, and transferring knowledge of the new implementation to the team.
- **Context System Design Management™ (SDM) Methodology** – The service offers assessment, design method and environment improvements, defines changes in workflow, and provides knowledge transfer to the team.

**High Speed PCB**
High speed PCV services help customers achieve board design success using proven HyperLynx best practices. Services include:

- **HyperLynx Consulting** – provides personalized guidance and coaching on the customers design and tool flow to maximize use of HyperLynx products.
- **High Speed Analysis** – performs high speed assessment of the PCB including recommendations and guidance to maximize design performance.
- **High Speed Methodology** – reduces design iterations through automation tailored to the customer’s design process, methodology, and flow.
Electronic Data Management
Electronic Data Management (EDM) services help customers increase design productivity through streamlined management of system component data. Services include:

EDM Consulting – provides expert guidance on real-world use of the Mentor EDM library. This service includes coaching, tool optimization, and knowledge transfer.

EDM Methodology – offers collaboration on real-world usage, as well as framework implementation, performance of process validation, and assistance on deploying to the team.

Xpedition
Xpedition services help customers achieve optimized PCB flows from schematic to package design. Services include:

ValyDate Consulting – offers knowledgeable guidance on everyday use of Xpedition ValyDate. This service provides tool and environment optimization, coaching, and knowledge transfer.

ValyDate Schematic Analysis – models and analyzes components for the customer's design to identify and classify problems. Includes collaboration to address crucial problems and to suggest remedies.

Xpedition Consulting – provides professional direction on real-world use of Xpedition tools. This service provides tool and environment optimization, coaching, and transfer of knowledge to the team.

Xpedition Methodology – implements competitive tool replacements and includes analysis and optimization of the Xpedition tool flow according to the customer's design process and methodology.

PCB Manufacturing
PCB Manufacturing services enable customers to achieve product success by maximizing productivity using Valor NPI for PCB manufacturing.

Valor NPI Consulting – provides expert tool and usage guidance on real-world use of Valor NPI. This service provides tool and environment optimization, coaching, and knowledge transfer.

Valor NPI Methodology – offers collaboration on Valor NPI implementation including custom DFM checks, scripting and automation, design analytics, and a report generator solution.

Key Benefits
- EDM Consulting and Methodology
  - Optimizes the data management environment
  - Streamlines management of multi-board environments
  - Enables reuse support
- ValyDate Consulting and Schematic Analysis
  - Enables increased product quality, while reducing iterations and effort
  - Reduces the need for manual inspection and reviews
- Xpedition Consulting and Methodology
  - Creates a full-feature PCB design flow
  - Enables concurrent editing and a central library for component management
  - Provides the foundation to enable high speed simulation and analysis
- Valor NPI Consulting, Methodology, and Implementation
  - Reduces false DFM violations and manual review time
  - Limits risk by managing design verification rules
  - Improves reporting and analytics

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