

Job Title: Senior Printed Circuit Board Lead Designer – Mentor Graphics

Location: Nashua, NH

Basic Function:

This position is responsible for creating state of the art PCB layouts from electrical schematics, net lists, mechanical input, and associated detail documents that adhere to the latest fabrication and assembly standards using Mentor Graphics design software.

Responsibilities:

- Design project lead – reports to the East Coast Operations Manager
- Handle multiple tasks and provide work leadership to other designers through the distribution, coordination, and managing of the assigned work load
- Customer input processing and design database setup.
- Ability to name, create, maintain, check, and coordinate component footprints and schematic symbol library databases
- Ability to create, from engineering inputs, board mechanical profiles, board fabrication stackups, detailed board fabrication drawings and packages, assembly drawings, assembly notes, etc., preferable for the Mentor Graphics Expedition and Boardstation tool sets.
- Load and debug Net lists (Expedition, BoardStation, and 3rd party)
- Ability to place components, perform density analysis, input constraints, route traces
- Generate layout reports daily/weekly for customers and Operations
- Archive closed jobs, copy to CD's, update master spreadsheet
- Retrieve archived jobs for respins
- Participation in Developmental tools and process related testing
- Must be willing to work extended and flexible hours to meet critical schedules when necessary
- Basic Schematics knowledge using Mentor Graphics tools

Skills:

- Basic computer literacy with PC/NT/Windows-based applications:
 - Microsoft EXCEL, Microsoft Word, notepad
 - Ability to write simple script files.
- Expert knowledge of Mentor Graphics layout and schematic capture tools, Expedition preferred
- Knowledge of signal integrity design constraints encompassing differential pairs, impedance control, high speed, EMI, and ESD
- Strong communication, interpersonal, analytical, and problem solving skills
- Excellent team player that can lead projects and mentor others
- Ability to accurately quote layout work, forecast schedules, and drive and motivate team to meet committed schedules
- Ability to adapt to changing customer requirements
- Work with customer and FCS engineering to ensure compliance with Manufacturing Design Standards
- Self-motivated
- Detail oriented, organized
- Positive team player

Education/Training:

Degree: High School Diploma is a minimum, AS degree is preferred

Experience:

- Ideal candidate have a minimum of 7 – 10 years of Mentor Graphics Expedition and BoardStation experience designing complex high layer count, highly constrained, high speed, printed circuit boards
- Other design tool knowledge is considered a plus
- Familiar with Industry Design Standards – ANSI, IPC, ITAR