

Lead Hardware Design Engineer

The retirement of our lead hardware engineer opens a truly unique position in a software dominated world for a seasoned and talented Hardware Design Engineer. SANBlaze is the leading test tool for Fabric (Network) and PCIe connected NVMe devices and is in a rapid growth phase as we develop test systems used by all major players in the NVMe world including Intel, SK_Hynix, Dell, Microsoft, Western Digital, Micron and many others.

As our business grows you have the opportunity to grow from an individual contributor to hiring and creating your own team.

A small company environment brings this unique opportunity to the right hardware engineer. Our next generation PCIe Gen5 system is in prototype phase and will now quickly progress to manufacturing and sales, requiring DVT, compliance testing and ECOs for the final pass.

The lead hardware engineer will own all aspects of this design and transition to manufacturing, including schematic capture, layout of high speed etch (PCIe Gen5), BOM creation, component identification and on-boarding, ECOs and directing subcontractors including mechanical design, contract manufacturing, and logistics in a "critical part shortage" world.

Due to recent rapid growth, SANBlaze works at a quick pace. We are looking for a unique individual who can own all aspects of the hardware design from concept to introduction to field support. Working with the software team and directed by the VP of sales, you will work to meet schedules and produce hardware that continues to delight our customers and aggravate our competition.

SANBlaze is a small shop and we expect the right candidate to work independently but interface seamlessly with subcontractors.

The ideal candidate is a highly motivated engineer who loves to design and build systems and own the process throughout the lifecycle. At SANBlaze we encourage independent thinking, innovation, self-motivation and creativity.

SANBlaze welcomes diversity and measures our employees solely on creativity and talent.

Job Summary:

As the Lead Hardware Design Engineer you will be responsible for the development of our upcoming Gen5 NVMe test platform SBExpress-RM5 as it exits the prototype stage and enters the market. SANBlaze will be the first to offer a Gen5 NVMe platform and the key to this role is to ensure the system meets the level of quality our customers' demand.

The successful candidate must have an in-depth knowledge of all phases of hardware development including design, schematic capture, high speed circuit design, and interfacing with contract manufacturing and suppliers for the timely creation of products.

We value independent thinkers and self-motivated employees who can work independently but also interface well with the software development team, customers and sales.

The candidate will attend related software and hardware strategy, release and qualification meetings and take direction from senior members of the engineering staff and the VP of Sales. It is expected that the lead hardware development engineer will be self-motivated and will quickly become a valuable member of the team.

Responsibilities:

- Sole responsibility for the hardware design of the SBExpress platform including:
 - Design - Working with sales and software engineering
 - Schematic capture - Either self or directing external resource when needed
 - Manage Layout - Either self or directing external resource when needed

- Scheduling - Working with manufacturing, sales, and the software team develop realistic but aggressive schedules for this and the next generation products
- BOM Creation - Identify all parts, work with manufacturing to acquire and identify long lead time or difficult to find parts
- Vendor identification - Identify and secure all sub-components
- Mechanical Design - Work with design contractor to specify design changes
- Mechanical Manufacturing - Work with metal shop to produce chassis
- Logistics - Work with contract manufacturing and supplier to create schedules, proto builds and final builds
- DVT - Design verification test of product ensuring safely, signal integrity and functionality
- ECO control - Generate ECOs and incorporate changes as needed
- Lead Qual team to reproduce, identify and resolve hardware issues
- Experience in Emissions testing and certification

In summary, all aspects of developing a hardware product, from design to implementation to qualification, to manufacturing to sales. The position is demanding but also a perfect opportunity for a talented hardware engineer. You will work independently but also in conjunction with sub-contractors and in concert with the software development team.

Minimum requirements:

- 5+ years' experience
- BSEE/BSCS or equivalent
- Cadence / Orcad tools for schematic capture and layout
- Fluency in circuit design including high speed (PCIe) signals
- Proven track record working all aspects of hardware design, implementation and acquisition as described above
- Proven track record successfully working with regulatory agencies
- Knowledge of Broadcom PCIe switch products a huge plus but not required
- FPGA design a plus but not required

Reporting:

The Lead Hardware Design Engineer reports directly to the President.

Travel:

Local travel to sub-contractors likely as needed.

How to Apply:

Send your resume to Michelle Holmes at: mholmes@sanblaze.com.