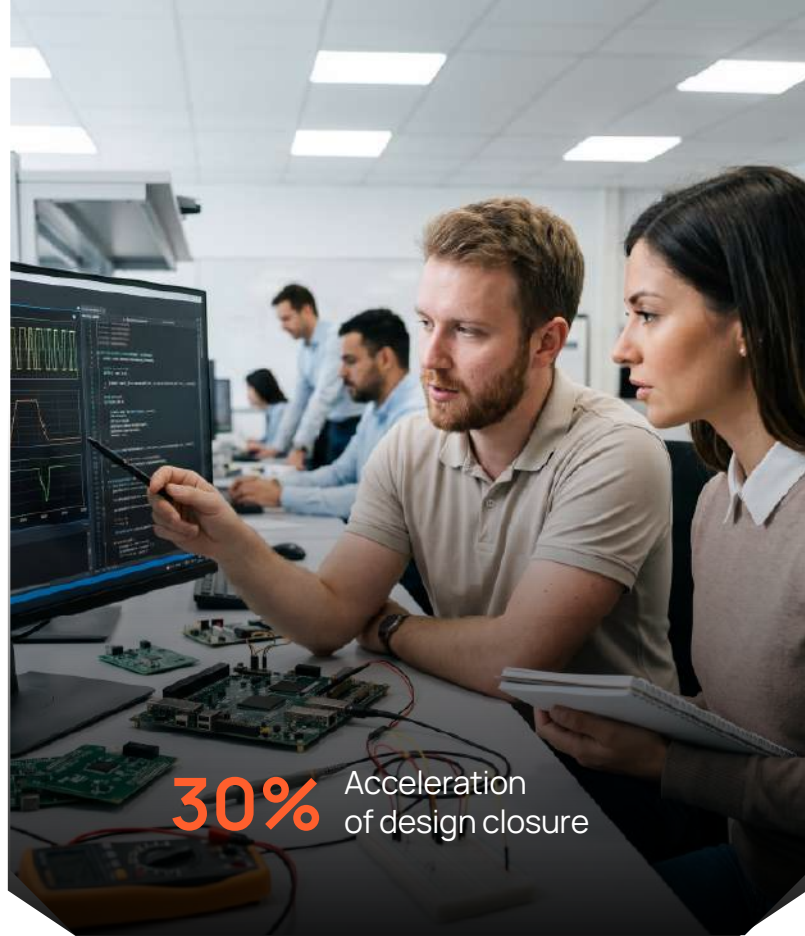




30% Acceleration
of design closure

Case Study

Helping **accelerate NVM Express SSD controller development** through rapid scaling of verification team

Our client, a US-based start-up in the flash storage domain, was developing a DRAM-less SSD as a new product from scratch. **They needed to rapidly expand its Design Verification (DV) team with an SSD background.** However, scaling through its captive center proved difficult due to resource attrition, higher operational costs, and a shortage of engineers with expertise in storage protocols such as PCIe, NVMe, LDPC, and NAND.

These challenges created a **need for a reliable verification partner** with the appropriate domain skill **capable of quickly ramping up a skilled team and accelerating verification activities.**

PCIe Gen5 SSD SoC Verification

- Our client, a US-based start-up in the **flash storage domain**, initiated development of a **DRAM-less SSD** as a New Product Introduction (NPI) from scratch.
- The client needed to rapidly scale its **Design Verification (DV)** team to support product development but faced challenges in expanding through its captive center due to **resource attrition, higher costs, and limited storage protocol expertise**.
- To address these challenges, we deployed a reliable verification team with strong storage domain knowledge, enabling accelerated verification execution and seamless project ramp-up.

Value created

- GlobalLogic shortened the customer's Time-to-Tape-Out by augmenting their DV capacity and expertise, **accelerating design closure by 30%**.
- We **strengthened their SSD and Protocol domain expertise** by providing engineers specialized in PCIe/NVMe, NAND Flash, DDR/LPDDR, ONFI/Toggle interfaces, DMA, and controller architectures
- GlobalLogic **enabled the customer to rapidly scale the DV team** during peak development phases without building permanent internal capacity.

Impact

- Delivered approximately **40% cost savings** compared to the client's captive center model.
- Enabled successful **multiple tape-outs and reached high-volume customer shipments in record time**.
- Supported continued product expansion, enabling design and shipment of **both client and enterprise-class SSDs**.