

Technical Project Manager Experience

Initial Requirements Process

Professional design experience consists of global cross-functional team interactions with application engineering and customers to generate the initial requirements for a custom high speed signal delivery solution for the customer's device under test.

Project Scope

The scope of every signal delivery solution entails initial requirements, schedules, cost estimates and project post-mortem. PMP training is required for detailed documentation related to developing business requirements and business analysis. Initial project charter documentation would include business cases, project statement of work, strategic goals and plan, summary of milestone schedules, budgets, approval requirements and cost estimates. My experience is with small scale pcb designs that have their own schedules and cost estimates.

Product Development Project Plan

The high level project management plans include building the following items to the plan, change management, work breakdown structure, schedule baseline, scope management, schedule management and cost baseline.

Budget

Professional design experience with the signal delivery solution includes generating project cost estimates including resource costs, buffers in project schedule delays, product design and manufacturing costs. The project cost estimate and budget can be impacted by product development schedule delays. Post-mortem project analysis includes budget estimates and cost estimates.

Resources

Technical resource allocation includes a design team that delivers the hardware product from schematic, printed circuit board layout to manufacturing. I am accountable and responsible for monitoring any increase in project cost due to resource allocation, product development schedule delays and increase in product cost due to fabrication and assembly.

Product Development Schedule

Understanding the reasons for product development schedule delays

Collect information from technical experts with regards to the product and provide possible technical solutions.

Re-allocate Resources

The reason for product development delay can range from a product defect to a change in requirements. A critical delay would entail daily status meetings, aggressive follow-ups and status updates to managements.

Modified Schedules and Product Releases

Delivering product releases on time and on budget entails accurate initial collection of requirements and an effective change management process.

Schematic

Lead schematic technical design reviews with internal applications engineering and customers. The PCBA product ranges from complex digital instrumentation for automated test measurement equipment to high speed signal delivery solutions interconnecting to the Teradyne test system.

Printed Circuit Board Layout Process

Lead high speed component placement and pcb layout design reviews with internal applications engineering and customers. The process entails monitoring and executing the signal delivery solution to meet initial high speed requirements.

High Speed Signal Integrity Simulations

Design experience consists of high speed digital simulations utilizing the latest industry level design tools ranging from digital channel links to 3D FEM simulations. Power integrity analysis includes evaluating product specifications for high speed signal delivery solutions.

High Speed Board Design Engineering Prototype Bring-up Process

Specialized revenue generating design engineering experience consists of complex engineering board bring-up, successful design verification and quality assurance of products actively working in the field.
