Title: Technical Manager - Component Design

Job Description

**Design Key Accountabilities :**  
  
Integrate between Design, Stress and CDG functions to achieve the best cost, weight, performance and delivery. Justifying designs at technical and business review meetings.  
  
Define deliverables and tasks for statement of work documents.  
  
Produce detailed Design Definition reports which accurately describe your requirements, concepts, concept selection criterion, risks and how the design will be verified and validated.  
  
Ensure that solutions are delivered on time, on cost and to the expected level of quality.  
  
Ensure the plan delivers all requirements (E.g. programme and technical). Support the Project change control processes. Understanding requirement and provide estimation.  
  
Completing the design in line with standards and best practices. Customer interaction and presenting to forums Review the Design Definition Report, Product data management/Bill of Material and Buy-off packs To make decisions and demonstrates ownership of the design solution.

1. Understand the Design problem, requirements and develop appropriate Engineering Design solutions resolving the problem.
2. Generate concepts, apply appropriate tools to down select and refine the solution concept.
3. Carry out detailed design activities which may involve Technical Risk analysis, FMEA, Tolerance stack calcs, Engineering calcs, Materail selection, Discussion with specialist areas etc.
4. Co-ordinate with Several functional teams to progress the design work and meet the design intent.
5. Produce design artifacts which may include Design Report, Solution drawings, Interface documents, etc
6. Follow Design Processes and work instructions to carry out the design work.
7. Own the design solution and demonstrate capability to customers
8. Act as a focal point for the design process and technical design solution (considering the entire life cycle of each component)
9. Use Robust Design methodologies (System Boundary Diagram, Functional Analysis diagram, Analytical Hierarchy Process (AHP), Pugh Matrix) to down select the best design concept.