

Functional Requirements (What/Events) Words	Design Idea (How) Words & drawings	Analysis Experiments, words, equations, spreadsheet, tradeoff analysis, etc.	References Books, www, articles	Risk Words, drawings, analysis	Countermeasure Words, drawings, analysis
A list of independent functions that the design is to accomplish	Ideally independent means to accomplish each functional requirement. The “best one” ultimately must be selected	Time, motion, power, cost, stress, design decision matrix. Each Design Idea’s feasibility must be proven. Analysis can be used to create Design Ideas	Anything that can help develop the idea including personal contacts, articles, patents, web sites, books, articles.	High, Medium, Low. Explain why. Development risk of each Design Idea	Ideas or plans to mitigate each risk