

# Re: Electronic Design – Project Management

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  - *Date:* 6 Dec 2006 09:38:42 –0800
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Joe G (Home) wrote:

HI All,

I have worked a little in a electronic design team in a previous job... and I want to communicate to my boss that there are a lot of steps required in building a successful product as well as design resources required and electrical approvals etc.

My boss has experience is electronic retail but limited experience in R&D , design and production of a product.

I have a few steps here... and I would appreciate any other factors you think I should communicate also.

\*\* specifically for the electronic / hardware design part EG add 4 weeks for R&D samples and hardware tooling etc \*\*

- draw up a product concept spec – what is it likely to do
- get boss to sign off product concept spec
- from the product concept spec – draw up a full product spec
- get the boss to sign off product spec
- draw up a design specification – including topology of the design (major silicon cost and etc)
- Budget cost out the Design based on 1 or more topologies
- Silicon cost
- R&D design time and material cost
- Hardware cost
- licence fees, IP cost, approval fees
- anticipated production cost
- overall product cost per volume mfg.
- Cost of development tools and test equipment required.
  
- boss signs off on budget costs or 1 or more topologies
  
- select one of the 1 topologies to start R&D development (1)  
(signed off by boss)

## Re: Electronic Design – Project Management

OK we can begin

- Begin R&D to work towards completing selected design
- Order in development tools and test equipment not immediately available for design
  
- Develop early R&D prototype board to prove concept and design topology
  
- Boss Signs off on R&D prototypes.... OR makes changes to product specifications go to (1)
  
- R&D Prototypes approved – begin production prototype design
  
- Complete production prototype design and Boss signs off on the production prototypes  
(compare against product specification)
  
- Sales and Marketing can be begin to draw up marketing plans
  
- Develop a test specification and test jigs for production
  
- Procure components and PCB for production
  
- Send test specification and test jigs to production area.
  
- production begins
  
- Sales and Marketing can begin to release Marketing plan
  
- Monitor production testing results and take random samples from production test production and design quality  
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