



Industrial Design  
Design Engineering

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Date/Estimator: 2016.07.27 / Gene DiMonte

Job Name: Generic Power Blocks

Client: Acme Corporation, 1000 Beep-Beep Dr, Looney Tunes, AZ 12345. <http://www.acmecorp.com/>

Contact: W. Coyote, Director of Engineering and New Product Development, 761-378-6637

Terms: Net 15 DGI Time. Net 10 all reimbursable expenses. *Unless otherwise negotiated.*

Special Info: This is an example of a typical DiMonte Group estimate based on a past project

Task: Design a proprietary modular connector system for LED lighting in cabinets	Man-Hours	Rate \$/hr	Total	MH/Day	Notes/Comments
<b>Phase 1 : Research and Design</b>	103.2		\$0.00	10.0	
Project kickoff	4		\$0.00		We need at least 2 modules of 1 style of cabinet in which this will be installed. It would be nice to get samples of a few other cabinet styles (different hinges, different door arrangements, shelves, etc)
Rough 3D CAD for spatial layout of cabinets and connectors (block models)	8		\$0.00		
Receive cabinet samples and research connectors used on competing products	8		\$0.00		
Research and select connectors to use in new design (with electrical consultant)	6		\$0.00		
<i>Design PCBs to mount connectors for each module (electrical consultant) (5-7 pcbs)</i>	EE	EE	EE		
3D CAD design of module housings and proprietary connector for LED strip	40		\$0.00		
Review with client	4		\$0.00		
Revise design based on client feedback (if needed)	12		\$0.00		
Review with client and plan for prototype and testing	4		\$0.00		
Contingency 20%	17.2		\$0.00		
Deliverable: 3D Solidworks CAD					
Delivery: # working days or sooner from start. <b>See Note 4.</b>				1.5	
<b>Re-imb. Exp.:</b> connectors and cable samples for reference, misc materials <b>See Note 1 &amp; Terms</b>				#	
<b>Re-imb. Exp.:</b> EE services and prototypes through Chicago Firmware Factory					EE bill thru DGI or directly to client TBD
<b>Phase 2 : Prototype and Test See Note 1</b>	40		\$0.00	10.0	
2D drawings if needed for prototypes	10		\$0.00		allows 3-5 days for prototype parts (SLA/SLS), need 7-10 days if cast or machined parts needed
Procure and expedite prototypes	6		\$0.00		
Receive, QA and assemble parts, tune to function	10		\$0.00		
Install in cabinets, test, document any issues	10		\$0.00		
Review with client	4		\$0.00		
Deliverable: 2-3 sets of assembled prototype parts, 3D Solidworks CAD					
Delivery: # working days or sooner from start. <b>See Note 4.</b>				1.5	
<b>Re-imb. Exp.:</b> Prototype components <b>See Note 1 &amp; Terms</b>				#	DGI will provide quotes from prototype vendors
<b>Phase 3 : Commercial Prototype Design See Note 1</b>	40		\$0.00	10.0	
Revise CAD based on prototype testing	10		\$0.00		allows 3-5 days for prototype parts (SLA/SLS), need 7-10 days if cast or machined parts needed
Procure and expedite prototypes	6		\$0.00		
Receive, QA and assemble parts	10		\$0.00		
Install in cabinets, test, document any issues	10		\$0.00		
Review with client	4		\$0.00		
Deliverable: 2-3 sets of assembled prototype parts, 3D Solidworks CAD					
Delivery: # working days or sooner from start. <b>See Note 4.</b>				1.5	
<b>Re-imb. Exp.:</b> Prototype components <b>See Note 1 &amp; Terms</b>				#	DGI will provide quotes from prototype vendors
<b>Phase 4 : Production Tooling Release and UL Testing Support See Note 1</b>	32		\$0.00	6.5	
Revise 3D CAD as needed based on prototype testing	8		\$0.00		Can reduce this time by applying more than one Man
Create 2D drawings for tooling and production (part and assembly drawings)	20		\$0.00		
Review with molder	4		\$0.00		
Build UL test units? - ACME should do this					
Deliverable: 2D and 3D Solidworks CAD package for production					
Delivery: # working days or sooner from start. <b>See Note 4.</b>					
<b>Services sub total</b>			\$0.00		
<b>SEE NOTE 1. Re-imb. Exp. Material &amp; hired services sub total</b>			\$0.00		
<b>Total</b>			\$0.00		

This estimate worksheet is an estimate only. A formal quote on DiMonte Group Inc. letterhead is available for this entire estimate or any part(s). It is valid for 30 days from the date it is issued; within the same calendar year. This worksheet is the confidential information and property of DiMonte Group Inc. and should not be shared outside of the client's organization.

Notes: Unless Otherwise Specified.

1. Preliminary Estimates are provided for budgetary purposes only. DGI reserves the right to revise this estimate when appropriate. **Actual vendor estimates will be provided for client approval when appropriate.**
2. All Estimated times and tasks above are to be considered "Not to Exceed". DGI will not work or bill past this budget with out client's approval in writing in advance.
3. All "Client Review" meetings are estimated to take place at DGI or via "Go2Meeting" Internet meeting. If Client requires meetings at their offices, they will agree to pay DGI's normal hourly rate during travel time.

4. Delivery times estimated DO NOT include Vendor or Client response times.

5. Travel to Vendors and Clients is not included, and must be approved by Client in advance. (More than 1 hour round trip.) Travel Rates:

a. Normal Hourly Rates Max. 8 hours per Man/per Man Day.

b. Travel outside of the Chicago land Area: Client will pay for travel and accommodation expenses in addition to Man Power time. DGI will pay for meals.

6. FEA estimates and results are NOT guaranteed, and client agrees to pay for DGI time worked regardless of results.