

Industrial Design **Design Engineering**

30W125 Youghal Rd. Warrenville, IL 60555 630.791.8074 telephone www.dimontegroup.com

Date/Estimator: 2017.01.05 / Gene DiMonte
Job Name: Generic Slot Machine Cabinet
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

					Notes/Comments
sk: Develop a Slot Machine Cabinet	Man-Hours	Rate \$/hr	Total	MH/Day	
ise 1a : Project Kickoff	48	Nate \$/11	\$0.00	14.0	
Kickoff meeting with key Client staff	16	0	\$0.00		
Gather data on component form factors (i.e. cash box, current and roadmap bill validator, Printers and	,				
future roadmap Printers, CPU and electronics, LEDs, player tracking systems, etc.)	8		\$0.00		
Determine and decrement professed featurers and latebase	2	0	\$0.00		
Determine and document preferred fasteners and latches. Confirm all access points including USB ports and locks. Determine size and preferred location of		0	\$0.00		
MEAL book and ticket storage.	2	0	\$0.00		
Detailed review of existing solutions at Client for hardware mounts, cabinet design, service access,					
laminate panels, etc. that can be capitalized upon to streamline design effort.	4	0	\$0.00		
Gather information required to insure that features required for mechanical reel configurations and top	6	0	\$0.00		
Review of relevant jurisdictional requirements. Review of project plan and confirmation of order of tasks	6	0	\$0.00 \$0.00		
Neview of project plant and commitmation of order of tasks		0	\$0.00		
Deliverable: Documentation for confirmation of receipt and understanding of data from Client			\$0.00		
Delivery: # working days or sooner from start. See Note 4.			\$0.00	2Men	
	- 00		00.00	10.0	
ase 1b: Industrial Design and Styling. Ideation of solutions and refine to 1 cabinet design 3D CAD layout modeling of to scale componentry of the shelf for sketch underlayment	80	0	\$0.00 \$0.00	13.0	
Sketching of cabinets, user interface, top box, bottom box, service access etc.	32	0	\$0.00		
Review of concepts	4	0	\$0.00		
Refine concepts to best options	16	0	\$0.00		
Review of best option concepts Refine to 1 concept, and build 1 foam core mockup	16	0	\$0.00 \$0.00		
Review and agree on final concept	2	0	\$0.00		
		0	\$0.00		
Deliverable: Ideation raw images and refined sketches as described above. B&W and Color images,					
possibly computer and hand generated. Mock up of cabinet in foam core			\$0.00		
Delivery: # working days or sooner from start. See Note 4.			\$0.00	2	
ase 2 : Alpha 1 build - Hinges and perimeter design	52	0	\$0.00	11.0	
Create SolidWorks Assembly to define envelope and preliminary location of all known components	6	-	\$0.00	11.0	
Design of overall core exterior as required to design of hinges and locks	6	0	\$0.00		
Design hinge and hinge reinforcements	8		\$0.00		
Design lock mounts and corresponding catches Test hinge reinforcement with FEA and revise as necessary	8	0	\$0.00 \$0.00		
Design and confirm mating features required in door for hinge, lock, and perimeter	10	0	\$0.00		
Review design with Client and freeze hinge and lock designs	4	0	\$0.00		
		0	\$0.00		
Deliverable: Reviews, SolidWorks CAD database			\$0.00		
Delivery: # working days or sooner from start. See Note 4.			\$0.00	1.5 Men	
ase 2 : Alpha 1 core design (concurrent with phase 3)	192	0	\$0.00	21.0	
Detail design of core structure	24		\$0.00		
Add mounting features for internal components and cable routing Create step-by-step assembly configurations. Client review to confirm design for mfg and service	100	0	\$0.00 \$0.00		
Make changes as required from review	8		\$0.00		
Detailed final pass to check and confirm/correct all details for Alpa1 build	24	0	\$0.00		
Design review with Client for prototype release	8		\$0.00		
Consult with vendors as required to confirm design details Periodic status meetings	8 14	0	\$0.00 \$0.00		
- Chodio Status Historings	14	0	\$0.00		
Deliverable: Reviews, SolidWorks CAD database			\$0.00		
Delivery: # working days or sooner from start. See Note 4.			\$0.00		
	1	<u> </u>			
se 2 : Top Box design (Concurrent with Phase 2)	60	0	\$0.00	6.5	
Detail Design of Top Box and Generic Fascia	40		\$0.00		
Review with Client, revise if required and freeze for Alpha build.	20	0	\$0.00		
Delivery: # working days or sooner from start. See Note 4.			\$0.00 \$0.00		
Dontory. " Working days or sooner from sidit. Gee Note 4.			φυ.υυ	I IIIaII	
	1				
se 3 : Alpha 1 door design (concurrent with phase 3)	250	0	\$0.00	21.0	
Develop Structural skeleton for door	40				
Develop emotive lighting assembly concepts with concentration on aesthetics and service	10	0	\$0.00		

Review skeleton and emotive lighting assembly with Client Develop cosmetic skins and mounting features for prototype manufacture Develop and detail keypad assembly Develop and detail access door Create step-by-step assembly configurations, Client review to confirm design for mfg and service Make changes as required from review Detailed final pass to check and confirm/correct all details for Alpa1 build Design review with Client for prototype release Consult with vendors as required to confirm design details Periodic status meetings Deliverable: Reviews, SolidWorks CAD database Delivery: # working days or sooner from start. See Note 4.	4 80 24 24 6 8 24 8 14	0 0 0 0 0 0 0 0 0	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	3 Men	
Phase 4 : Alpha 1 drawings (some may be concurrent with phases 2 and 3)	300	0	\$0.00	35.0	
2D Drawings on Client border for Alpha 1 prototype component fabrication and 1st article inspection, Basic Assembly and Exploded assembly documentation, BOM for mechanical components. Release Solidworks data and drawings to Client and vendors as required for Alpha 1 build Deliverable: Prototype drawings and Solidwork CAD database Delivery: # working days or sooner from start. See Note 4.	300	0	\$0.00 \$0.00 \$0.00 \$0.00	5 Men	
Phase 5 : Participate in Alpha 1 build (At Client /Vendor) Travel expenses not estimated.	136	0	\$0.00	24.0	
Receive and check components Assemble cabinet Document design issues and opportunities to improve the product as they present themselves Deliver assembled cabinet to Client and participate in detailed review. Create detailed bulleted list of all design changes for next phase	24 60 20 16 16	0 0 0 0 0	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	24.0	
Deliverable: 1 Assembled prototype and detailed list of all suggested changes for Alpha 2 Delivery: # working days or sooner from start. See Note 4.			\$0.00	3+ Men	
Phase 6 : Alpha 2 design	320	0	\$0.00	32.0	
Budgetary estimate of design support for Alpha 2 design and drawing updates Vendor support for Alpha 2 fabrication Participate with Client in Alpha 2 assembly	240 40 40	0 0 0 0	\$0.00 \$0.00 \$0.00 \$0.00	J2.0	
Deliverable: SolidWorks CAD database, Assembled Alpha 2 prototype Delivery: # working days or sooner from start. See Note 4.			\$0.00 \$0.00	4+ Men	
Phase 7 : Beta design	200	0	\$0.00	24.0	
Budgetary estimate of design support for Beta design and drawing updates Vendor support for Beta fabrication Participate with Client in Beta assembly	120 40 40	0 0 0	\$0.00 \$0.00 \$0.00 \$0.00		
Deliverable: SolidWorks CAD database Delivery: # working days or sooner from start. See Note 4.			\$0.00 \$0.00	3+ Men	
	0:	a aub t-t-t	#DEE!		
Services sub total SEE NOTE 1. Re-imb. Exp. Material & hired services sub total			#REF! #REF!		
Total			#REF!		

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
- 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
- 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.