



Industrial Design
Design Engineering

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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
SEE NOTE 1.

	Man-Hours	Rate \$/hr	Total	MH/Day	Notes/Comments
Task: Develop a Slot Machine Cabinet					
Phase 1a : Project Kickoff	48		\$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 document preferred fasteners and latches.	2	0	\$0.00		
Confirm all access points including USB ports and locks. Determine size and preferred location of 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	4	0	\$0.00		
Review of relevant jurisdictional requirements.	6	0	\$0.00		
Review of project plan and confirmation of order of tasks	6	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	
Phase 1b : Industrial Design and Styling. Ideation of solutions and refine to 1 cabinet design	80		\$0.00	13.0	
3D CAD layout modeling of to scale componentry of the shelf for sketch underlayment	8	0	\$0.00		
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	2	0	\$0.00		
Refine to 1 concept, and build 1 foam core mockup	16	0	\$0.00		
Review and agree on final concept	2	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	
Phase 2 : Alpha 1 build - Hinges and perimeter design	52		\$0.00	11.0	
Create SolidWorks Assembly to define envelope and preliminary location of all known components	6	0	\$0.00		
Design of overall core exterior as required to design of hinges and locks	6	0	\$0.00		
Design hinge and hinge reinforcements	8	0	\$0.00		
Design lock mounts and corresponding catches	8	0	\$0.00		
Test hinge reinforcement with FEA and revise as necessary	10	0	\$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		
Deliverable: Reviews, SolidWorks CAD database			\$0.00		
Delivery: # working days or sooner from start. See Note 4.			\$0.00	1.5 Men	
Phase 2 : Alpha 1 core design (concurrent with phase 3)	192		\$0.00	21.0	
Detail design of core structure	24	0	\$0.00		
Add mounting features for internal components and cable routing	100	0	\$0.00		
Create step-by-step assembly configurations. Client review to confirm design for mfg and service	6	0	\$0.00		
Make changes as required from review	8	0	\$0.00		
Detailed final pass to check and confirm/correct all details for Alpha1 build	24	0	\$0.00		
Design review with Client for prototype release	8	0	\$0.00		
Consult with vendors as required to confirm design details	8	0	\$0.00		
Periodic status meetings	14	0	\$0.00		
Deliverable: Reviews, SolidWorks CAD database			\$0.00		
Delivery: # working days or sooner from start. See Note 4.			\$0.00	3 Men	
Phase 2 : Top Box design (Concurrent with Phase 2)	60		\$0.00	6.5	
Detail Design of Top Box and Generic Fascia	40	0	\$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	1 man	
Phase 3 : Alpha 1 door design (concurrent with phase 3)	250		\$0.00	21.0	
Develop Structural skeleton for door	40	0	\$0.00		
Develop emotive lighting assembly concepts with concentration on aesthetics and service	10	0	\$0.00		

