Hozhoni Foundation Button Maker

10/27/2016

Presentation 1, ME 476C

Team 26

Abdullah Alajmi – (project manager.) Majid Alenezi – (secretary/ document)

manager.

Mutlaq Alajmi - (website developer.)

Faleh Alajmi – (budget liaison)

NORTHERN ARIZONA UNIVERSITY



Client's information

• Hozhoni foundation company



 It's a leading provider of services for people with disabilities

• Our client is Dr. Sarah Oman



Majid Alenezi

Project Description:

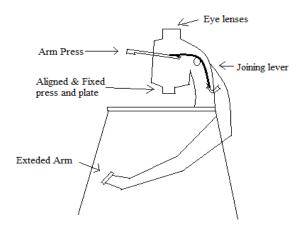
- The goal of this project is to create a device that cut six circle at once.
- The product is directed towards disability who need an assistance cutting the paper.
- With the QFD and product research in mind, the team developed viable designs.
- Each engineering requirement has a target and acceptable purpose



Majid Alenezi

Designs Considered

- The team performed overview for the small-scale and personal button makers.
- The team found out that personal use button makers can either be electric (automatic) button maker or manually operated button makers.





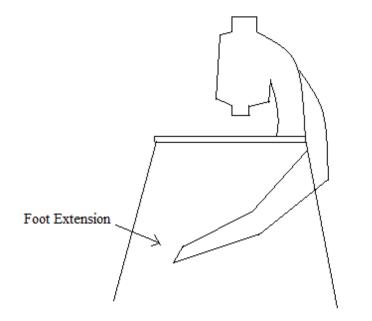
Design 2

Design 1

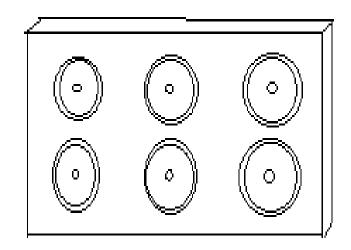
Pros and Cons of electric and manually for the designs

Existing Design for the button maker	Advantages	disadvantages	
electric (automatic)	1- Easy to use 2- save time 3- high quality	1- less safety 2- expensive 3- power needed	
manually operated	 1- Option of using either hand or leg 2- less cost 3-work anytime 	1- Not moving 2- Not easy to store	

Design Selected:



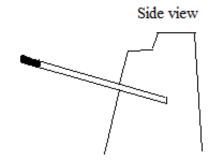
Press plate

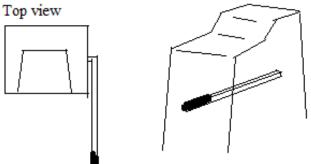


Design #3

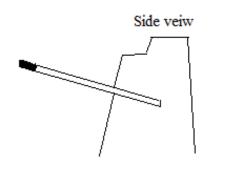
Design #4

Design Selected:

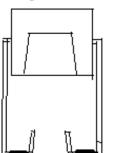


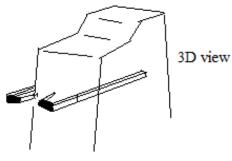












Design 6



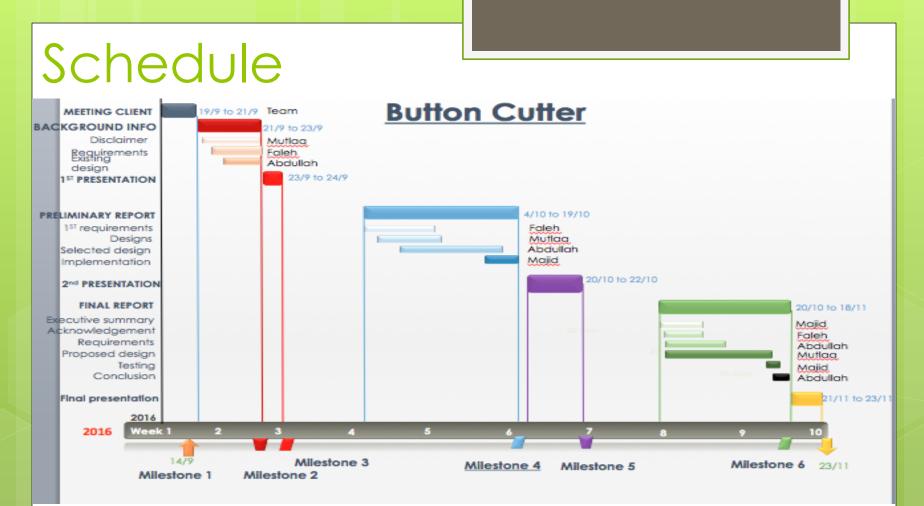
Pros and Cons of Design Selected

Advantages	disadvantages
safe time	Not Safety
Using leg	Not moving
Small size	Not easy to store
Light weight	

Pugh Chart

Button Maker										
	1	2	3	4	5	6	7	8	9	10
smaller than last year's solution	S	S	D	+	S		+	S	S	S
lighter than last year's solution	S			•	S	+	•		•	S
cut out six circle patterns at once	+	S	Α				+	S	•	· · · · ·
cut out patterns cleanly with no ripped edges	+					S	+		+	+
operational with only one hand/arm	+	S	T	S	+	+	S		S	+
guide to position the papers during cutting	+					S	S	S	S	S
S+	+4	+0	U	+1	+1	+2	+3	+0	+1	+2
Ş.	-0	-3		-4	-3	-2	-2	-3	-2	-2
S	4	3	М			2	2	3	3	3
Ranking	4	0		-2	-1	2	3	0	2	3

Mutlaq Alajmi



- Tentative Schedule for Fall Semester, pending schedule of course deliverables

- According to the Gantt Chart, the design team is currently on schedule Faleh Alajmi

Button Maker

Project Budget

INCOME		Budget	Actual	Difference
	Budget	1500		1500
Total INCOME		1500	-	(1500)
EXPENSES		Budget	Actual	Difference
Materials		750		750
Prototyping		100	-	· 100
Shipping		150		· 150
Manufacturing		250	-	250
Printing		100	-	· 100
Unexpected Expenses		150	•	· 150
	Subtotal	1500		• 1500
Total EXPENSES		1500	-	1500
NET (Income - Expenses)		1500		1500
			I	Faleh Alajmi

Any question?

• We welcome for your questions.

Faleh Alajmi Abdullah Alajmi Majid Alenezi Mutlaq Alajmi