

Team 15

Ali Alkhaiyat

Carlos Shields

David Rankin

Kevin Park

Project Description



- LEARNING through PLAY
- INTERACTIVE EXPERIENCE
- NO PRESSURE

[2]

Project Description

Faculty advisor : David Willy

Client : The Wonder Factory in Flagstaff

Financial sponsor : NAU

Background and Benchmarking

Researched Science Museums/Centers:

Oregon Museum of Science and Industry
(OMSI in Portland)

Pacific Science Center (Seattle, WA)

Arizona Science Center (Phoenix)

Exploratorium (San Francisco, CA)



[3]



[4]

Background and Benchmarking

Evaluated several interactive pieces:

Merry-go-round construction

Strandbeest

Radiation concentrator contest

Marble Machine



[3]



[5]

Customer Requirements and Weightings

#	Customer Requirements	Descriptions	Weight
1	Portable	Easy to move, setup, transport, etc.	5
2	Multiple users	Possible to have more than one user at a time	3
3	Project into role	User feels like an engineer, scientist, artist, etc.	4
4	Feel smart	Display allows user to learn from the experience	4
5	Tactile	Users are able to touch, move, and explore the display	3
6	Auditory	Display has integrated sounds for the user	2
7	Visual	Display is appealing and attracts visitors to use it	3
8	Simple	Not so complex that the user gets frustrated and quits	5
9	Safety	Anyone can use the display without injury	5

Schedule and Budget

Gantt Chart

					Week 2		Week 3					Week 4					Week 5					
	Start Date	End Date	Duration	Accountable	8/8/2016	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep
Team Meeting Minutes Week 2	8-Sep	8-Aug	1d	David Rankin																		
Background	14-Sep	30-Sep	17d	Team																		
Team Meeting Minutes Week 3	14-Sep	14-Sep	1d	Yongseok Park																		
Wonder Factory Meeting 1	19-Sep	19-Sep	1d	Team																		
House of Quality	19-Sep	20-Sep	2d	Ali and Juan																		
Customer needs	19-Sep	20-Sep	2d	Yongseok Park																		
Weightings	19-Sep	20-Sep	2d	Juan Shields																		
Outline of Background Report	14-Sep	20-Sep	7d	David Rankin																		
Team Meeting Minutes Week 4	21-Sep	21-Sep	1d	Ali Alkhaiyat																		
Staff Meeting 1	21-Sep	21-Sep	1d	Team																		
Presentation 1	22-Sep	28-Sep	2d	Team																		
Background Report	14-Sep	30-Sep	2d	Team																		
Background	14-Sep	25-Sep	2d	Yongseok Park																		
Requirements	15-Sep	26-Sep	2d	Ali Alkhaiyat																		
Existing Design	16-Sep	27-Sep	2d	David Rankin																		
Format	17-Sep	28-Sep	2d	Team																		
Updates	18-Sep	29-Sep	2d	Team																		

Budget : \$1,500

Fundraising optional

QUESTIONS?

THANK YOU!

References

- [1] *The Wonder Factory* [Online]. Available: www.facebook.com/thewonderfactoryflagstaff
- [2] *Pacific Science Center* [Online]. Available: <https://www.pacificsciencecenter.org/the-sherlock-holmes-exhibition>
- [3] *The Exploratorium* [Online]. Available: <http://www.exploratorium.edu>
- [4] A. Brandt. (2013, July 19). *Portland on a Budget: OMSI* [Online]. Available: <http://blogs.reed.edu/reedreslife/2013/07/19/portland-on-a-budget-omsi/>
- [5] T. Jansen. *Strandbeest* [Online]. Available: <http://www.strandbeest.com>