Hozhoni Cleaning Crew Final Proposal

≻ Group 34:

- Fahad Alaenezi (Web Designer)
- Amber Juare (Secretary/ Document manager)
- Calvin Schnorbus (Client Contact)
- Hussain Alwateeb (Budget Liaison)
- Hasan Aldhefeery (Project Manager)





Project Description

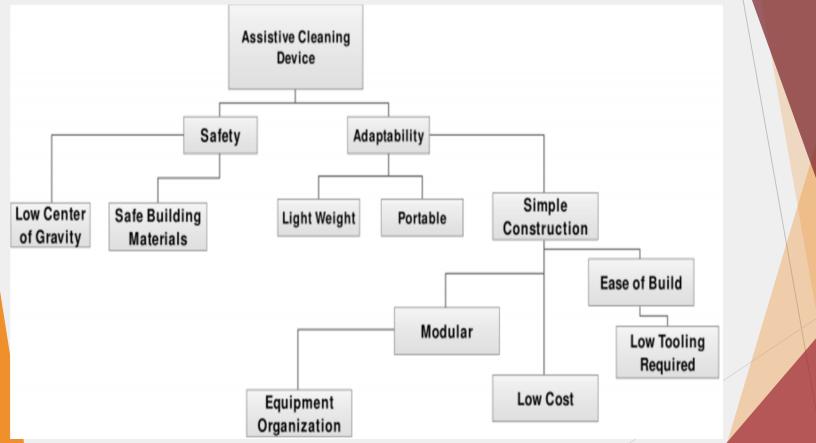
- Client: Hozhoni (ho-sho-nee) Foundation company.
- Our goal is to create a system that allow those in wheelchairs to safely and efficiently transport cleaning supplies.
- Device must be storable and be compatible with different wheelchairs.

The solution must be adaptable for different sizes types of wheelchairs

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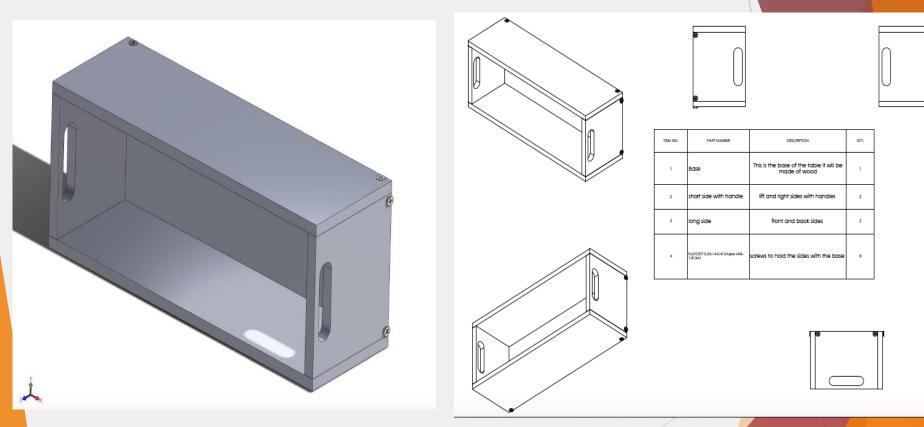


Functional Decomposition:



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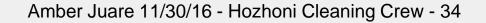
Final Design Description: Lap Table



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Design Function:

- Simple rectangular box with handles on the side for users comfort
- Velcro system that allows the device to stay securely on lap
- Most materials required for the design can be found at hardware stores and craft stores Currently



Bill Of Materials:Wood

Material	Quantity	Price	Location
1 oak panel (0.5in x 24in x 48in)	1	\$15.00	Home Depot.com
Velcro (5ft long, 3/4in wide)	1	\$2.89	Velcro.com
Wood screws (\$0.04 per screw)	8	\$0.32	Home Depot.com
1 yard felt fabric	1	\$3.99	JoAnns.com
		Total: \$22.2	

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Bill Of Materials: ABS Plastic

Material	Quantity	Price	Location
1 sheet ABS Plastic (24in x 48in)	1	\$42.12	Onlinemetals.com
Velcro (5ft long, 3/4in wide)	1	\$2.89	Velcro.com
1 yard felt fabric	1	\$3.99	JoAnns.com
		Total: \$49.00	

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Design Requirements:

- Must have sufficient storage space for supplies.
- Device does not interfere with the user's mobility.
- Be able to store in small closets.
- Device must be lightweight, about 20lbs or less.
- Adaptable.

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Schedule:

Test News			Sep				0					Nov		
Task Name	Aug 2	Sep 5	Sep 12	Sep 19	Sep 26	i Oct 3	Oct 10	Oct 17	Oct 24	Oct 31	Nov 7	Nov 14	Nov 21	N
1-Background report														
1.1 Background														
1.2 Requirements														
1.3 Existing Design														
1.3.1 system level														
1.3.2 subsystem level														
2-Background presentation														
2.1 project description														
2.2 Background and Bench														
2.3 CRs														
2.4 Budget and Scheduling														
3-Evaluation report														
3.1 Background														
3.2 Requirements														
3.3 Existing Designs														
3.4 Design considring														
3.5 Design selected														
4-Evaluation presentation														
4.1 Project Description														
4.2 Designs Considred														
4.3 Design Selected														
4.4 Scheduling and Budget														
5- Final Proposal														
5.1 Background.														
5.2 Requirements.														
5.3 Existing designs.														
5.3.1 System level														
5.3.2 Subsystem level														
5.4 Design Considered													•	
5.5 Design Selected														1
5,6 Proposed Design														
6- Presentation 3														
6.1 Project Description														1
														1
	1-Background report 1.1 Background 1.2 Requirements 1.3 Existing Design 1.3 Existing Design 1.3.1 system level 1.3.2 subsystem level 2-Background presentation 2.1 project description 2.2 Background and Benchi 2.3 CRs 2.4 Budget and Scheduling 3-Evaluation report 3.1 Background 3.2 Requirements 3.3 Existing Designs 3.4 Design considring 3.5 Design selected 4-Evaluation presentation 4.1 Project Description 4.2 Designs Considred 4.3 Design Selected 4.4 Scheduling and Budget 5-Final Proposal 5.1 Background. 5.2 Requirements. 5.3 Existing designs. 5.3.1 System level 5.4 Design Considered 5.5 Design Selected 5.6 Proposed Design 6.7 Presentation 3	Aug 2 1-Background report 1.1 Background 1.2 Requirements 1.3 Existing Design 1.3 Existing Design 1.3.1 system level 1.3.2 subsystem level 2-Background presentation 2.1 project description 2.2 Background and Bench 2.3 CRs 2.4 Budget and Scheduling 3-Evaluation report 3.1 Background 3.2 Requirements 3.3 Existing Designs 3.4 Design considring 3.5 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Design Selected15.6 Design Selected15.7 Design Selected15.8 Existing designs.15.3 Existing designs.15.4 Design Considered15.5 Design Selected15.6 Design Selected15.7 Design Selected15.8 Design Requirements15.9 Design Requirements15.1 Project Description15.2 Design Requirements	Task NameAug 2Sep 5Sep 121-Background report111.1 Background11.2 Requirements11.3 Existing Design11.3 Existing Design11.3.1 system level12.3 subsystem level12.4 Budget and Scheduling12.5 CRs12.4 Budget and Scheduling13.1 Background13.2 Requirements13.3 Existing Designs13.4 Design considring13.5 Design selected14.1 Project Description14.2 Designs Considred14.3 Design Selected14.4 Scheduling and Budget15.5 Requirements.15.3 Existing designs.15.3 Existing designs.15.4 Design Considered15.5 Design Selected15.6 Proposed Design16.7 Presentation 316.8 Design Requirements16.4 Schedule16.4 Schedule1	Task NameAug 2Sep 5Sep 12Sep 191-Background report111.1 Background111.2 Requirements111.3 Existing Design111.3.1 system 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Budget

The total budget for this project was \$1,500 funded by Hozhoni to create our system(s).

Wood lab table	\$22.2		
ABS plastic lab tab	plastic lab table		49
Allocating Price:			Cost
Prototyping			\$40
Final design			\$800
Shipping			\$100
Total			\$940
Remaining			\$560

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Our prototype:





