



Progress Presentation Hozhoni Cleaning

Amber Juare Calvin Schnorbus Fahad Alaenezi Hasan Aldhefeery Hussain Alwateeb Team 34

Project Description

- Hozhoni (ho-sho-nee) Foundation company.
- This Company works to help disabled people.
- Client: Ms. Charlene Turman from the Hozhoni Foundation.
- Create a device that can efficiently carry cleaning supplies for those in wheelchairs.
 <u>Device must be storable and be compatible</u>



with different wheelchairs.

- Our goal is to create a system that allows wheelchair users to easily and efficiently carry cleaning supplies.
- The solution must be adaptable for different sizes or types of wheelchairs.

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What was done over the Winter break?

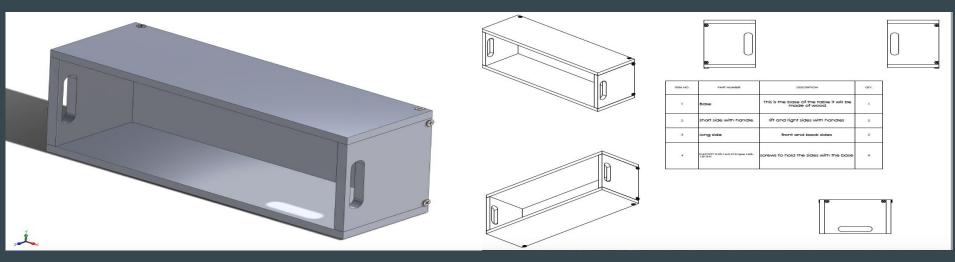


- one meeting during the winter break.
- Worked to improve the prototype by building a new box using a wood glow.
- Making plans to improve the project.



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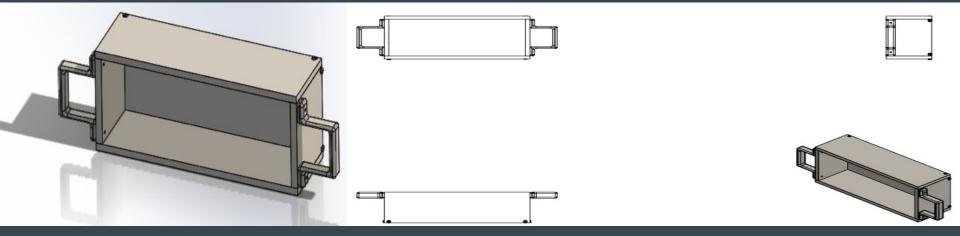
Updates – Original Design



- Simple rectangular box with holes on the side for users comfort.
- Velcro system that allows the device to stay securely on lap.
- Used a screws to attach the pieces.

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Updates – New Design



| Changes | |
|---|---------------------------------|
| 1- Plastic or wood has (water proof). | 4- wood glue instead of screws. |
| 2- Handles instead of holes. | 5- Divider. |
| 3- Magnetic instead of Velcro. | 6- Hooks. |

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Manufacturing



- Tooling required: Saw(hand or electrical), Clamps, Sewing kit, Straight edge.
- Materials: 2.5 sq ft of material (wood, plastic, metal), 3 ft of elastic material, 2 ft velcro (sew-on), handles of choice, wood glue.

- Cut 3 (16 x 6) in pieces and 2 (6 x 6)in pieces.
- Glue pieces together, use clamps.
- Sew on 8 in of velcro to each end of elastic material.
- Sew on rest of velcro on the top of material and apply to bottom side of box.
- Attach handles to sides.

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Responsibilities

- Calvin- Assembly
- Fahad- Attachments/Accessories
- Hussain- Materials
- Amber & Hasan- Belt







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Budget

• Total Budget: 1,500\$

• Costs for the Prototype: 77\$

• Resulting Balance: 1,423\$



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Budget

| Material | Cost | Picture | Material | Cost | Picture |
|-----------|--------|---------------|--------------|--------|--------------|
| Wood X2 | 12\$ | | Velcro | 12\$ | s street man |
| Screw X13 | 6.50\$ | Contraction 2 | Elastic Belt | 6\$ | |
| Handle X2 | 8\$ | | Divider | 6.50\$ | |
| Saw | 20\$ | | Sanding | 6\$ | |

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Gantt Chart

| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | i | Zoom In | Zoom | Out | Today | ▼ ← | Past Futu | ıre → Sł | now critical | path Ba | selines | | | | | | | | | | | |
|--|--------------|--------------|---------------------|--------|--------|-------------------|--------|-------------|------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------|-------------------|------------------|--------------------|--------------------|--------------------|-------------------|--------|
| GANTT. | \mathbf{S} | \mathbf{i} | 2016 | 2017 | | | r | | | | | | -10 | -10 | | | | | | -10 | -1 | - | |
| Name | Begin date | End date | Week 53 12/25/16 | Week 1 | Week 2 | Week 3 1/15/17 | Week 4 | Week 5 | Week 6 2/5/17 | Week 7 2/12/17 | Week 8 2/19/17 | Week 9 2/28/17 | Week 10 ars/17 | Week 11 0/12/17 | Week 12 3/19/17 | Week 13 | Week 14 4/2/17 | Week 15 49/17 | Week 16 4/18/17 | Week 17 4/20/17 | Week 18 4/00/17 | Week 19 5/7/17 | N S |
| TEAM meeting | 1/19/17 | 1/19/17 | | | | 1/1017 | | | | | | | | | | | | | | | | | |
| STAFF meeting | 1/25/17 | 1/25/17 | | | | | | | | | | | | | | | | | | | | | |
| progress PRESENTATION | 1/30/17 | 1/30/17 | | | | | | | | | | | | | | | | | | | | | |
| TEAM meeting | 2/6/17 | 2/6/17 | | | | | | | | | | | | | | | | | | | | | |
| HARDWARE review 1 | 2/13/17 | 2/13/17 | | | | | | | | | | | | | | | | | | | | | |
| STAFF meeting | 2/20/17 | 2/20/17 | | | | | | | | | | | | | | | | | | | | | |
| • TEAM meeting | 2/27/17 | 2/27/17 | | | | | | | | | | | | | | | | | | | | | |
| MIDPOINT PRESENTATION | 3/6/17 | 3/6/17 | | | | | | | | | | | | | | | | | | | | | |
| HARWARE review 2 | 3/20/17 | 3/20/17 | | | | | | | | | | | | | | | | | | | | | |
| TEAM meeting | 3/27/17 | 3/27/17 | | | | | | | | | | | | | | | | | | | | | |
| STAFF meeting | 4/3/17 | 4/3/17 | | | | | | | | | | | | | | | | | | | | | |
| PRESENTATION WALK THR | 4/10/17 | 4/10/17 | | | | | | | | | | | | | | | 14 | | | | | | |
| FINAL PRODUCT TESTING | 4/17/17 | 4/17/17 | | | | | | | | | | | | | | | | | | | | | |
| UGRADS PRESENTATION | 4/24/17 | 4/24/17 | | | | | | | | | | | | | | | | | | | | | |
| • TEAM meeting | 5/1/17 | 5/1/17 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

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Schedule

• According to our Gantt Chart we are on head with Schedule.

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Questions:

