

**From:** Team F5 ( Marshall Classroom)

**To:** Dr.Oman

**Date:** 03/19/2018

**Re:** Hard review 2

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We, as a team, are supposed to build a safe rectangular sensory board that can help children disabilities learn how to read, write, liver their normal lives, and learn many basic life's skills. We, so far, have built a rectangle box made of wood and we have attached all parts to the outside and inside walls of this sensory board. Also, we made a door on one side so that kids learn how to push, pull, and or even twist. Therefore, our sensory board is like a closed room where kids can enjoy and play with materials, and hopeful learn something. Finally, we put insulation and we cut a carpet so that it fits the inside portion of the device. Pictures of the inside and the outside device is shown below:



Figure 1: Outside View of the Design



Figure 2: Inside View of the Design

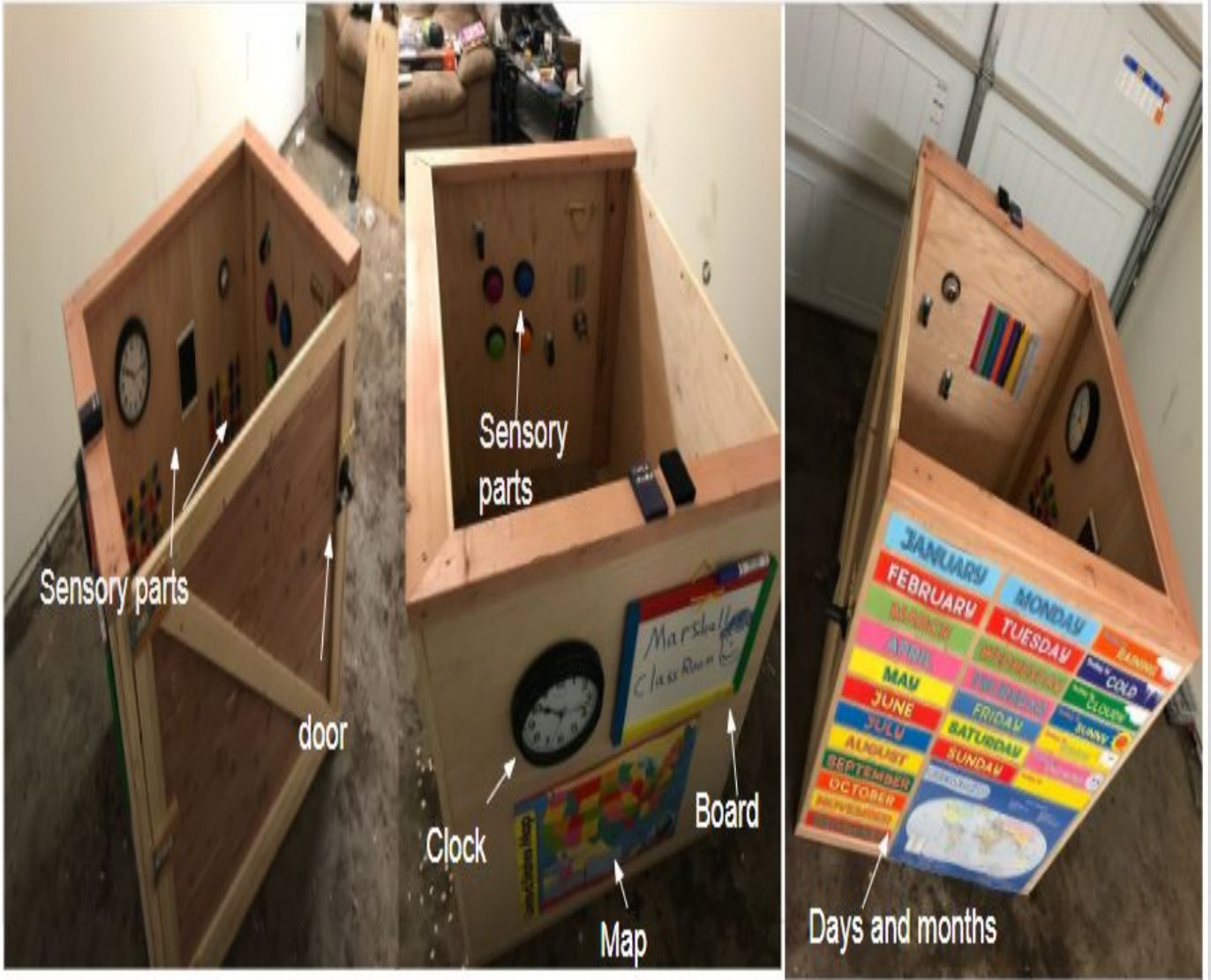


Figure 3: Final Design

List of Actions completed between HR1 and HR2:

**Abdullah Almutairi (aaa759)**

- Updated Cad
- Bought wood
- Bought supports for the design to avoid tipping over
- Built the wooden box
- Attached some parts
- Cut the carpet and installed to the inside along with insulation
- Met the clients
- Correct most of the mistakes in the report
- Finished up the report
- Submitted the midpoint report
- Bought screws and bolts for the device

**Abdullah Abdulaziz Almutairi (aaa953)**

- Bought parts for the design
- Helped in building the device
- Did my part in midpoint report
- Budget responsible
- Make sure we do not exceed the limits in terms of the budget

**Yousef Alkatan**

- Bought bolts and screws for the design
- Did the testing for analytic analysis topics
- Helped in doing and editing the midpoint report
- Helped in building the design
- Helped in doing some updates in the Cad
- Met with Dr. Oman to get feedback for the midpoint report
- Added my slides for the midpoint presentation and submitted it

**Mohammad Alkatan**

- Went with Abdullah to buy the wood
- Searched for ways how to ensure the design does not tip over
- Cut the sides of the wood and fasten them together using screws
- Bought batteries and velcro
- Bought wood's glue and use it to attach the parts
- Met with Dr. Oman to get feedback for the report and editing the midpoint report

- Set up my own slides for presentation and took pictures for the design

#### **Taha Alansari**

- Website Update
- Manufacturing
- Did my part in midpoint report
- Installed the carpet and the insulation to the design
- Bought Magnets for the letters and numbers

#### List of Actions that will be completed between HR2 and final product:

#### **Abdullah Almutairi(aaa759)**

- Testing
- Trying to make the device more safe
- Take care of the sharp corners
- Add more parts
- Prepare the poster
- UGRADs presentation
- Finish up the final report
- Deliver the device to the clients
- finally , update cad package

#### **Abdullah Abdulaziz Almutairi (aaa953)**

- Test the device
- Get the client's approval
- Buy more parts for safe device
- More testing
- Work on the final report
- Prepare for the poster
- Probably paint the device if needed
- Help in cad package

#### **Yousef Alkatan**

- Buy more parts if we need for the design
- Increase the safety of the design by making the corners soft
- Make it more professional by painting the design and in this way it can be more attractive for children
- Test the design
- poster

- Get ready for the final presentation and the final report
- Transport the device to the client and get feedback about the device

### **Mohammad Alkatan**

- Test the design again and make sure everything work properly
- Find the errors for the design and try to find engineering solution for them to make it more safe
- Work on the poster for the final design
- Meet with clients and ask them if they need more parts to be attached
- Find a way how to attach the remaining parts
- Write the assigned parts for the final report
- Meet with TA or Dr. Oman to get feedback for the final design and final report

### **Taha Alansari**

- Update the website
- Work on the poster
- Final presentation
- Do my part on the final report
- Attach more parts to the design
- Do more research on how to make the device more safe