

Project created on 08.09.2016 13:53.

Report for project Senior Design Electronic book

Task created on 07.04.2017 00:43.

Final Model Exoskeleton Updates

No due date

No description

Task tags: *No tags*

Activity of task Final Model Exoskeleton Updates

07.04.2017 00:43 *Shirshak Aryal* created task **Final Model Exoskeleton Updates**.

Task created on 14.04.2017 14:09.

Design Safe

No due date

No description

Task tags: *No tags*

Completed by *Shirshak Aryal* on 14.04.2017 14:11.

Step 1: Final Version of Design Safe Table

We will upload final version of design safe table this weekend.

Activity of task Design Safe

14.04.2017 14:09 *Shirshak Aryal* created task **Design Safe**.

14.04.2017 14:11 *Shirshak Aryal* created Step 1 **Final Version of Design Safe Table**.

14.04.2017 14:11 *Shirshak Aryal* completed Step 1 **Final Version of Design Safe Table** (1/1 completed).

Task created on 14.04.2017 13:14.

Glove Design

No due date

No description

Task tags: *No tags*

Completed by Shirshak Aryal on 14.04.2017 14:05.

➔ **Step 5:** Useful Reference for Glove Making

1) <http://www.rehabmart.com/product/bio-form-compression-glove-7248.html> 2) <http://www.rehabmart.com/product/spio-glove-compression-garments-30645.html> 3) <http://www.rehabmart.com/product/deroyal-edema-gloves-34-in-finger-28304.html> 4) <http://www.rehabmart.com/product/deroyal-edema-gloves-full-finger-28308.html> 5) <http://www.rehabmart.com/product/bioform-compression-glove-7240.html>

Completed by Shirshak Aryal on 14.04.2017 14:02.

➔ **Step 4:** Glove Design Styles

There four different possible design of our glove, that can easily meet our criteria. Since only a little modification is required to go from one design to another, we will be considering all of these design while making the glove, and possibly come up with the hybrid as needed. Those four are 1) Full Finger Closed gloves 2) 3/4 in Finger Gloves 3) Open tip gloves 4) Hand wrist-plam closing glove.

 [*Full_Finger_Glove1.png*] File uploaded on 14.04.2017 14:02.



 [*Full_Finger_Glove2.png*] File uploaded on 14.04.2017 14:02.



 [*Hand_wrist_palm_glove.png*] File uploaded on 14.04.2017 14:02.



 [*3_4_Finger_in_Gloves.png*] File uploaded on 14.04.2017 14:02.



 [*Open_Tip_Gloves.png*] File uploaded on 14.04.2017 14:02.



 Comments for step Glove Design Styles


No comments

Completed by Shirshak Aryal on 14.04.2017 13:35.

➔ **Step 3:** Glove size


The table shown below will be used as reference to while making cut for the glove

sizes. This table was obtained from
<http://www.glove.org/Modern/glovemeasure.php>

 [Screen_Shot_2017-04-14_at_8.32.44_AM.png]


File uploaded on 14.04.2017 13:35.



 [Screen_Shot_2017-04-14_at_8.33.00_AM.png]

File uploaded on 14.04.2017 13:35.



 Comments for step Glove size

No comments

Completed by Shirshak Aryal on 14.04.2017 13:33.


➔ Step 2: Glove Procedure

Most of our background research on working with spandex material to make glove can be found under the tab "Compression Glove" which was posted few weeks ago in Scinote. Currently, we have been working on finding right kind of design of glove, which is going to be made this Saturday.

Completed by Shirshak Aryal on 14.04.2017 13:28.

➔ Step 1: Sewing classes

Nischal has been taking couple of sewing classes this week. His classes involves work with both hard and soft fabrics. His final sewing class takes place tonight after 5:30 pm at TechShop.

 Comments for step Sewing classes

No comments

🗄 Activity of task Glove Design

- 14.04.2017 13:14 *Shirshak Aryal* created task **Glove Design**.
- 14.04.2017 13:28 *Shirshak Aryal* created Step 1 **Sewing classes**.
- 14.04.2017 13:28 *Shirshak Aryal* completed Step 1 **Sewing classes** (1/1 completed).
- 14.04.2017 13:33 *Shirshak Aryal* created Step 2 **Glove Procedure**.
- 14.04.2017 13:33 *Shirshak Aryal* edited Step 2 **Glove Procedure**.
- 14.04.2017 13:33 *Shirshak Aryal* completed Step 2 **Glove Procedure** (2/2 completed).
- 14.04.2017 13:34 *Shirshak Aryal* created Step 3 **Glove size**.
- 14.04.2017 13:35 *Shirshak Aryal* edited Step 3 **Glove size**.

14.04.2017 13:35 *Shirshak Aryal* completed Step 3 **Glove size** (3/3 completed).
 14.04.2017 14:00 *Shirshak Aryal* created Step 4 **Glove Design Styles** .
 14.04.2017 14:02 *Shirshak Aryal* edited Step 4 **Glove Design Styles** .
 14.04.2017 14:02 *Shirshak Aryal* completed Step 4 **Glove Design Styles** (4/4 completed).
 14.04.2017 14:05 *Shirshak Aryal* created Step 5 **Useful Reference for Glove Making**.
 14.04.2017 14:05 *Shirshak Aryal* completed Step 5 **Useful Reference for Glove Making** (5/5 completed).

🔹 Samples of task Glove Design

No samples

Task created on 07.04.2017 00:12.

📁 Adjustable Knob Updates

No due date

No description

Task tags: *No tags*

Completed by Shirshak Aryal on 14.04.2017 13:12.

🔹 Step 4: Knob Design 4

Another version of knob was 3D printed yesterday. The hollow cylindrical screw part will house the strings which will hold exoskeleton splint together. This will also provide functionality to change static shape of the exoskeleton as required

🖼️ [*red_knob_top.jpg*] File uploaded on 14.04.2017 13:08.



🖼️ [*red_knob_bottom.jpg*] File uploaded on 14.04.2017 13:08.



🖼️ [*black_knob_top.jpg*] File uploaded on 14.04.2017 13:08.



🖼️ [*black_knob_bottom.jpg*] File uploaded on 14.04.2017 13:08.



💬 Comments for step Knob Design 4

No comments

Completed by Shirshak Aryal on 14.04.2017 13:06.

➔ Step 3: Knob Design 3

This is the another potential design of the knob, which will be tested this weekend with the exoskeleton.

 [*ratchet_wheel.jpg*] File uploaded on 07.04.2017 00:31.



 [*wheel_knob_top.jpg*] File uploaded on 14.04.2017 13:06.



 [*wheel_knob_side.jpg*] File uploaded on 14.04.2017 13:06.



 Comments for step Knob Design 3

No comments


Completed by Shirshak Aryal on 07.04.2017 00:30.

➔ Step 2: Knob Design 2

This is the simplest version of the knob, if the above fails to fulfill our need. It has a hole on the longitudinal screw to accommodate the string mechanism.

 [*simple_knob.jpg*] File uploaded on 07.04.2017 00:28.



 [*Printed_simple_knob_top_side.jpg*] File uploaded on 07.04.2017 00:40.



 [*Printed_Simple_Knob.jpg*] File uploaded on 07.04.2017 00:40.



 Comments for step Knob Design 2

No comments

Completed by Shirshak Aryal on 07.04.2017 00:28.

➔ Step 1: Knob Design 1


This is the first knob design that will be printing. The 3D printed version of this knob will be also be uploaded here.

 [*Knob1a.jpg*] File uploaded on 07.04.2017 00:26.



 [Knob1as.jpg] File uploaded on 07.04.2017 00:26.



 Comments for step Knob Design 1

No comments

Activity of task Adjustable Knob Updates

07.04.2017 00:12 *Shirshak Aryal* created task **Adjustable Knob Updates**.
 07.04.2017 00:26 *Shirshak Aryal* created Step 1 **Knob Design 1**.
 07.04.2017 00:28 *Shirshak Aryal* edited Step 1 **Knob Design 1**.
 07.04.2017 00:28 *Shirshak Aryal* completed Step 1 **Knob Design 1** (1/1 completed).
 07.04.2017 00:28 *Shirshak Aryal* created Step 2 **Knob Design 2**.
 07.04.2017 00:30 *Shirshak Aryal* edited Step 2 **Knob Design 2**.
 07.04.2017 00:30 *Shirshak Aryal* completed Step 2 **Knob Design 2** (2/2 completed).
 07.04.2017 00:31 *Shirshak Aryal* created Step 3 **Knob Design 3**.
 07.04.2017 00:32 *Shirshak Aryal* edited Step 3 **Knob Design 3**.
 07.04.2017 00:32 *Shirshak Aryal* completed Step 3 **Knob Design 3** (3/3 completed).
 07.04.2017 00:40 *Shirshak Aryal* edited Step 2 **Knob Design 2**.
 14.04.2017 13:06 *Shirshak Aryal* edited Step 3 **Knob Design 3**.
 14.04.2017 13:06 *Shirshak Aryal* edited Step 3 **Knob Design 3**.
 14.04.2017 13:06 *Shirshak Aryal* uncompleted Step 3 **Knob Design 3** (2/3 completed).
 14.04.2017 13:06 *Shirshak Aryal* edited Step 3 **Knob Design 3**.
 14.04.2017 13:06 *Shirshak Aryal* completed Step 3 **Knob Design 3** (3/3 completed).
 14.04.2017 13:08 *Shirshak Aryal* created Step 4 **Knob Design 4**.
 14.04.2017 13:12 *Shirshak Aryal* edited Step 4 **Knob Design 4**.
 14.04.2017 13:12 *Shirshak Aryal* edited Step 4 **Knob Design 4**.
 14.04.2017 13:12 *Shirshak Aryal* completed Step 4 **Knob Design 4** (4/4 completed).