

Team Cosmos

Jherin Miller, Kelly Lei,
Klea Bajala

Team JK

Jherin Miller, Kelly Lei,
Klea Bajala

My hand is
in the

Insight Driven

Conversations with Courtney,
Sara and her mom

Responds to sounds. **Sound** as an **output** is confirmed

She enjoys **playful** and **quirky** sounds

Sound as a **reward system**. A **motivation** to want to move her fingers

Sound

Hand Movements

Her movements
are made **softly**
and **slowly**

Movements are
at the **pointer**
finger, **index**
finger and **wrist**

She mostly
moves her **left**
hand

Her movements
are **sporadic**
and **chaotic**

Glove Design

Soft and not
constricted

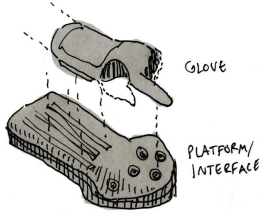
Communicate
with teachers
and therapists

How might we...

Satisfy most of the insights with this glove project?

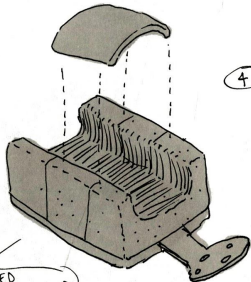


Prototype 1



*QUESTIONS/
INSTRUCTION
GUIDE

MAGNETIC GRIP



MOUNTED
ON WHEELCHAIR?

OR
USED ON SURFACE
WITH ROLLING BEARINGS?



MOUNT
TO PLATFORM
TO KEEP STABLE?

OR
STREAMLINED AS
GLOVE WITH
MAGNETIC PLATFORM

FLEX SENSOR
FOR GESTURE?

CONDUCTIVE
SLEEVE

MAGNETIC
CONTACT?

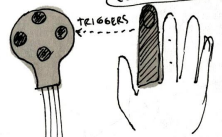
BRACE

FOAM

INTERFACE
(PERHAPS CLOSER
IN FIRM TO
THE FOAM)

4 CONTACT POINTS

CONDUCTIVE SLEEVES



ARMING

HID

SOUNDPLANT

SOUND
BITES

WORD
SELECTION

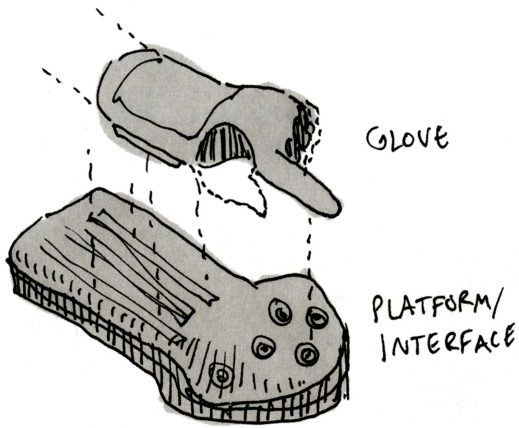
LETTER
SELECTION

NEW
VISUAL?

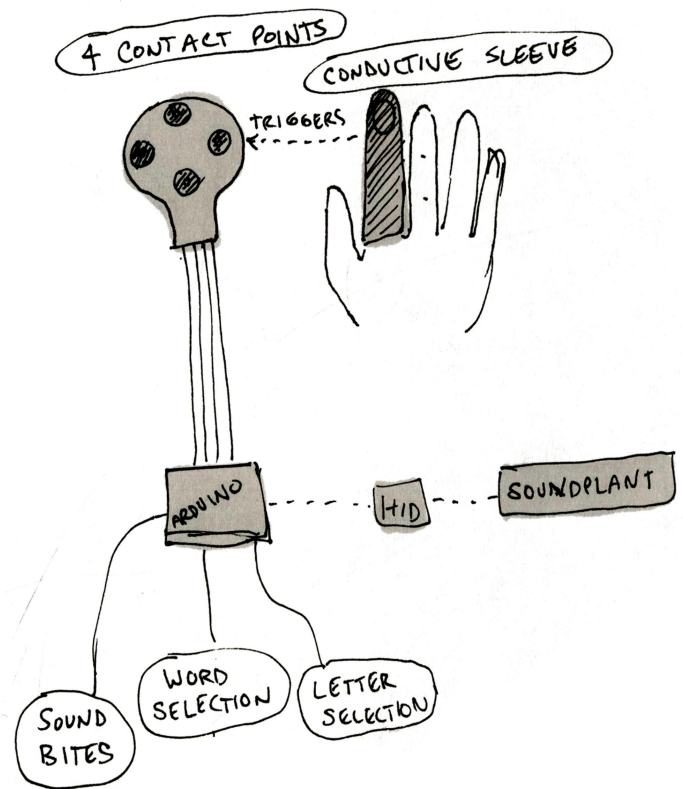
PRESS ONCE TO
PREVIEW QUIETLY
IN EAR, PRESS
TWICE TO "SAY IT"?

"TOLLER"
PRESENCE
LEARN

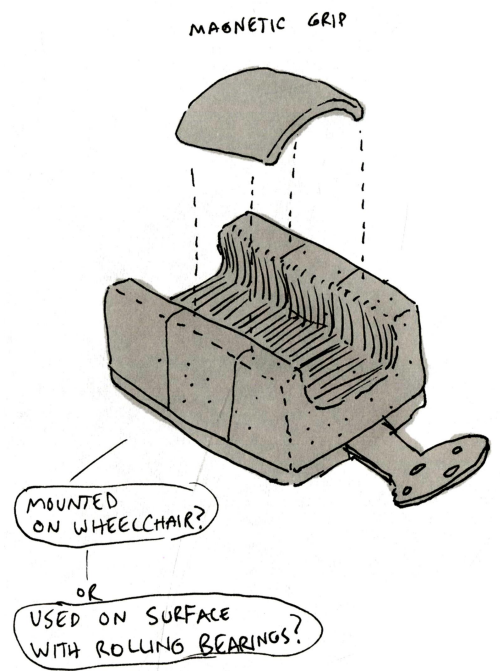




1



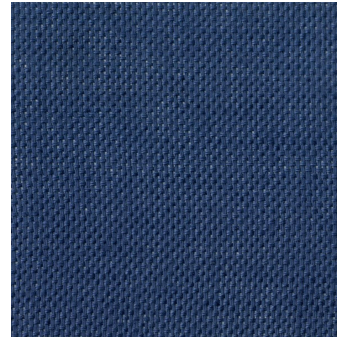
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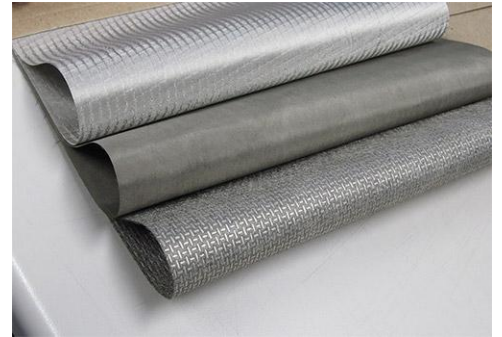
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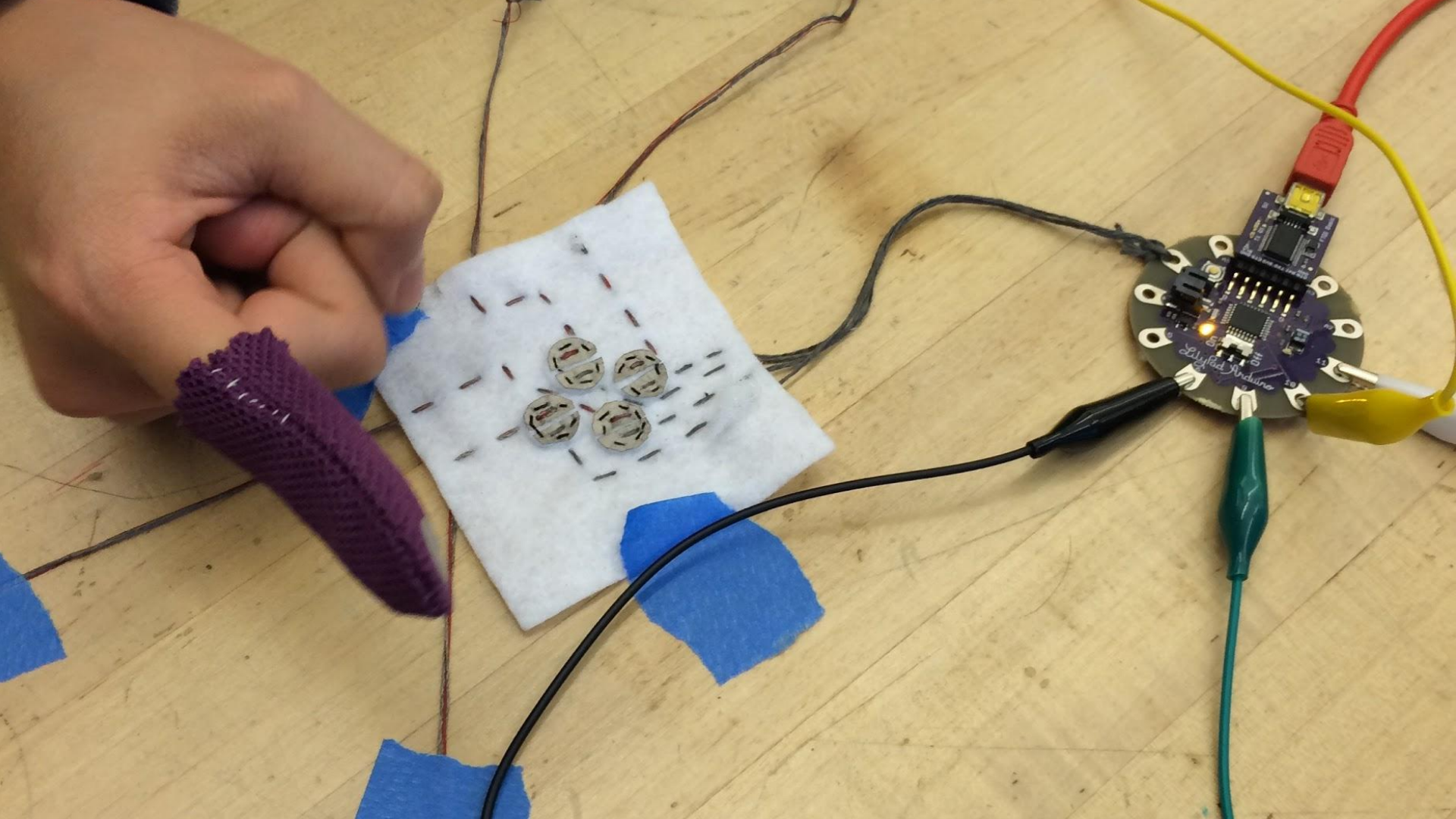
**Polyurethane upholstery
foam**



**Soft
breathable
fabric**



**Conductive
Fabric**





Hand Movements

Her movements
are made **softly**
and **slowly**

Movements are
at the **pointer**
finger, **index**
finger and **wrist**

She mostly
moves her **left**
hand

Her movements
are intentional.

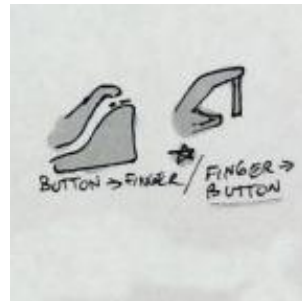
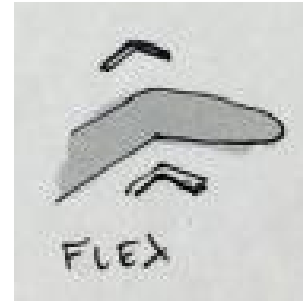
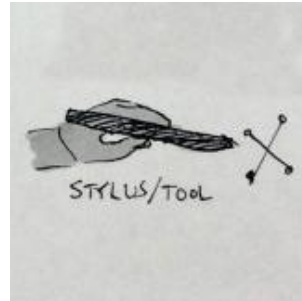
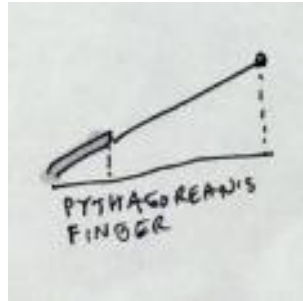
Glove Design

Soft and not
constricted

Communicate
with teachers
and therapists

A red square with a white border, containing the text "Prototype 2" in white. The square is centered on a white background.

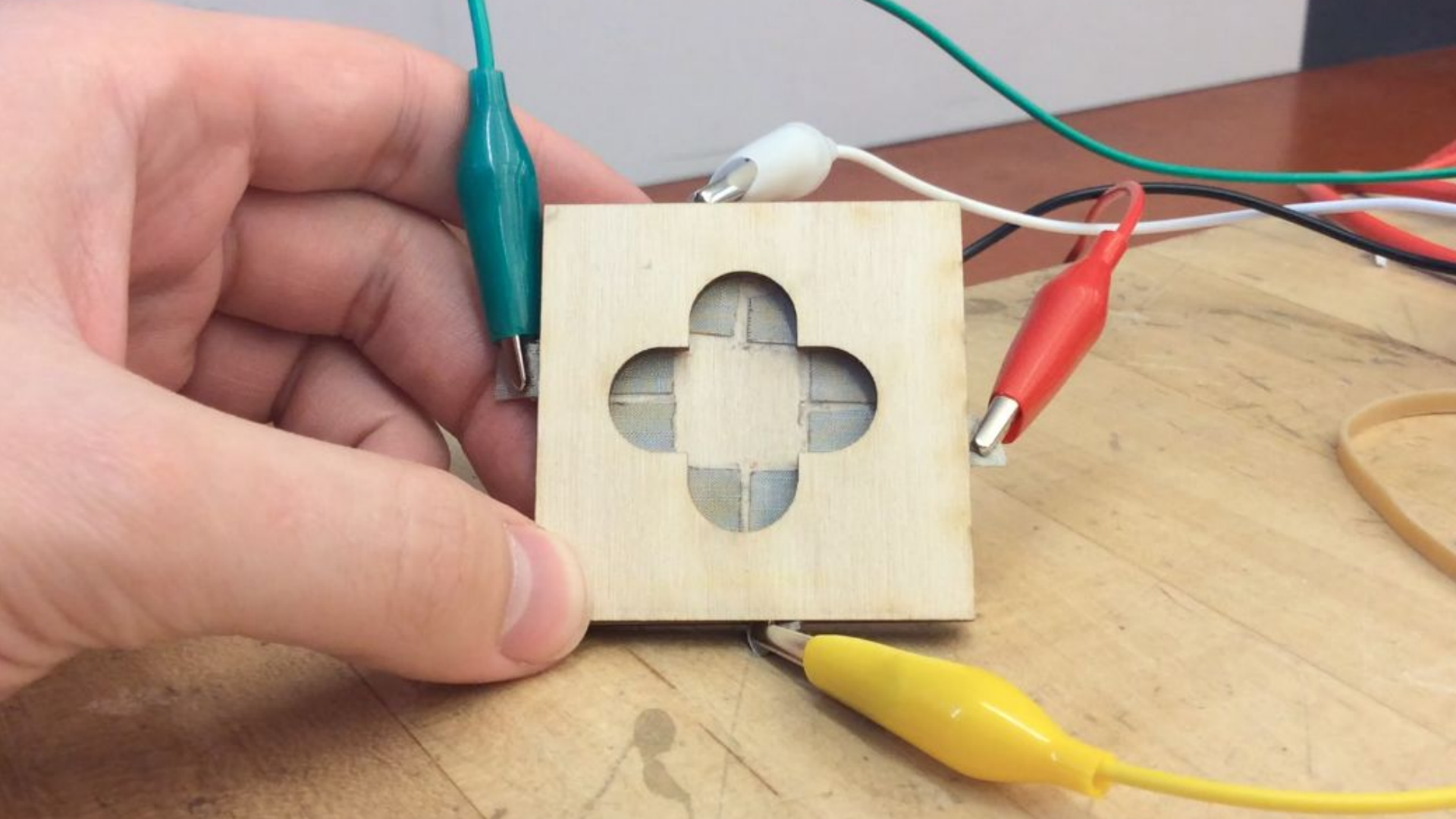
Prototype 2

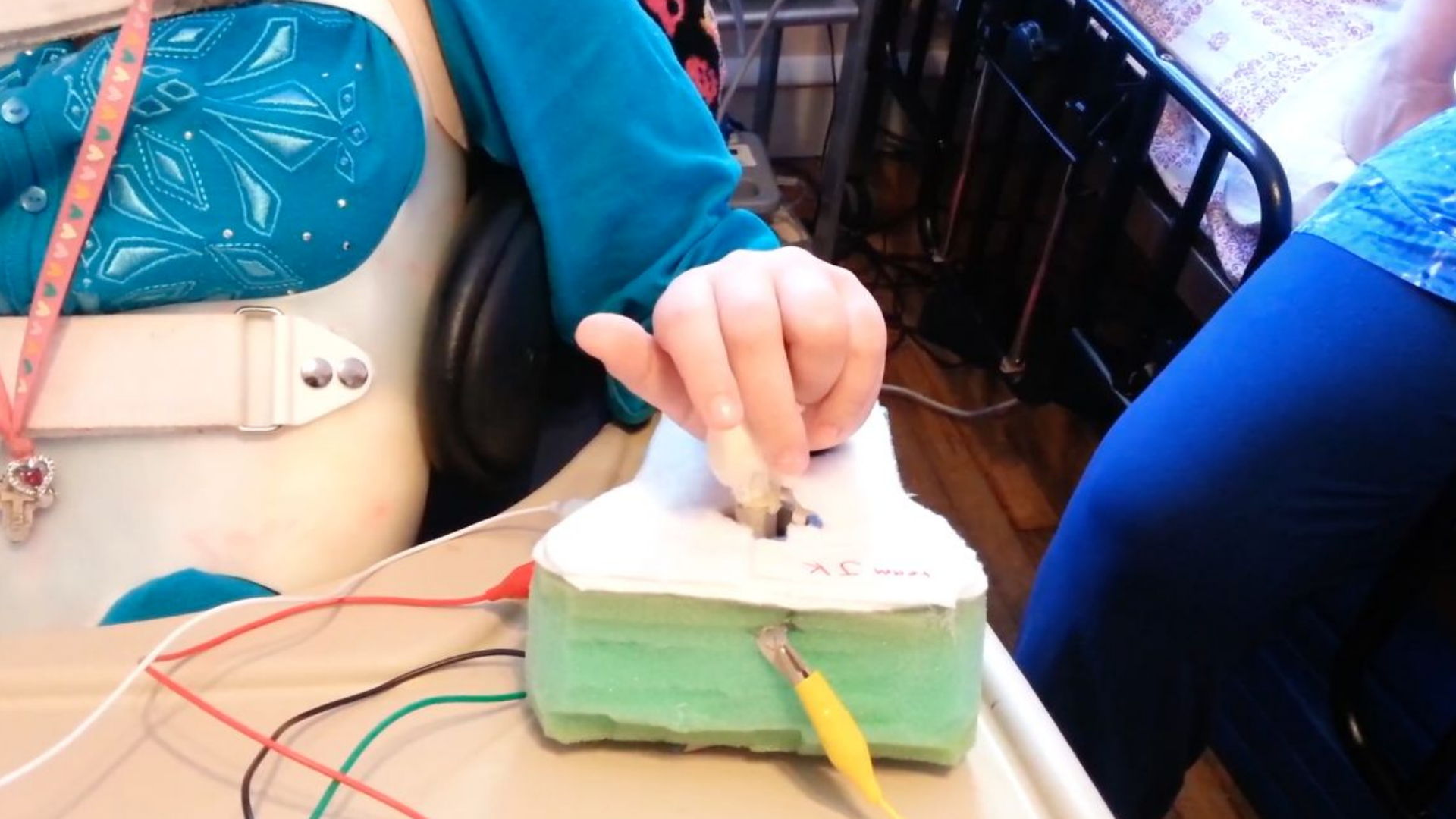


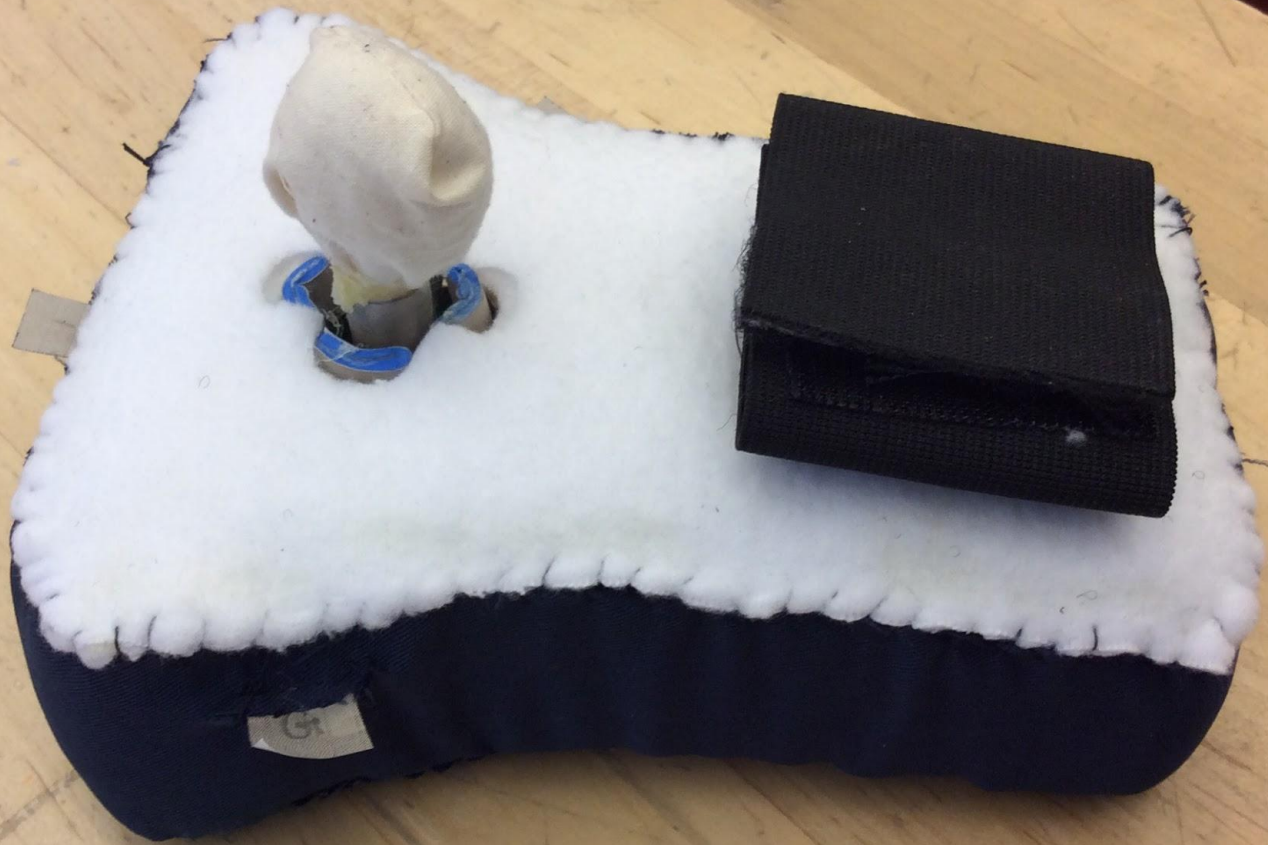
Ideation

At this stage, we have learnt how to use the micro controllers to play specific file sounds

Trouble-shooting:
Music played only for 2 seconds









Team JK
