

SYNAPSEWEAR

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FABRICADEMY PROJECT

2025-2026



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**CAN WE TRAIN THE BRAIN
THROUGH PLAYING?**

CAN WE TRAIN THE BRAIN
THROUGH PLAYING?

YES

Stimulus → **Response**



bop it!

- Processing speed
- Sustained attention

blue	white	yellow	blue	red
green	yellow	blue	green	black
yellow	red	blue	green	yellow
red	yellow	red	white	green
blue	green	red	yellow	black
blue	black	blue	black	white
black	yellow	white	blue	green
red	black	red	yellow	green
red	yellow	blue	white	blue
red	yellow	blue	yellow	green

Stroop test

- Selective attention
- Stimulus-response conflict management
- Inhibition

Fabulous Fred



/ Simon

- Processing speed
- Sustained attention
- Memory

"SIMON SAYS"

- Listening skills
- Selective attention
- Processing speed

HANDS-ON

**WHAT IF WE TAKE THE ESSENTIALS
THAT MAKE EACH OF THESE
INTERESTING AND BRING THEM
DIRECTLY TO THE HANDS?**

“Eye-hand coordination is **key to
maintaining your **independence**”**

- (Godman, 2021)

“Eye-hand coordination is **key to maintaining your **independence**”**

“Coordination **declines over time”**

- (Godman, 2021)

"You can improve eye-hand coordination by exercising, practicing skills, and treating underlying conditions"

-Budson (as cited in Godman, 2021)

VISUOMOTOR COORDINATION

(EYE-HAND)

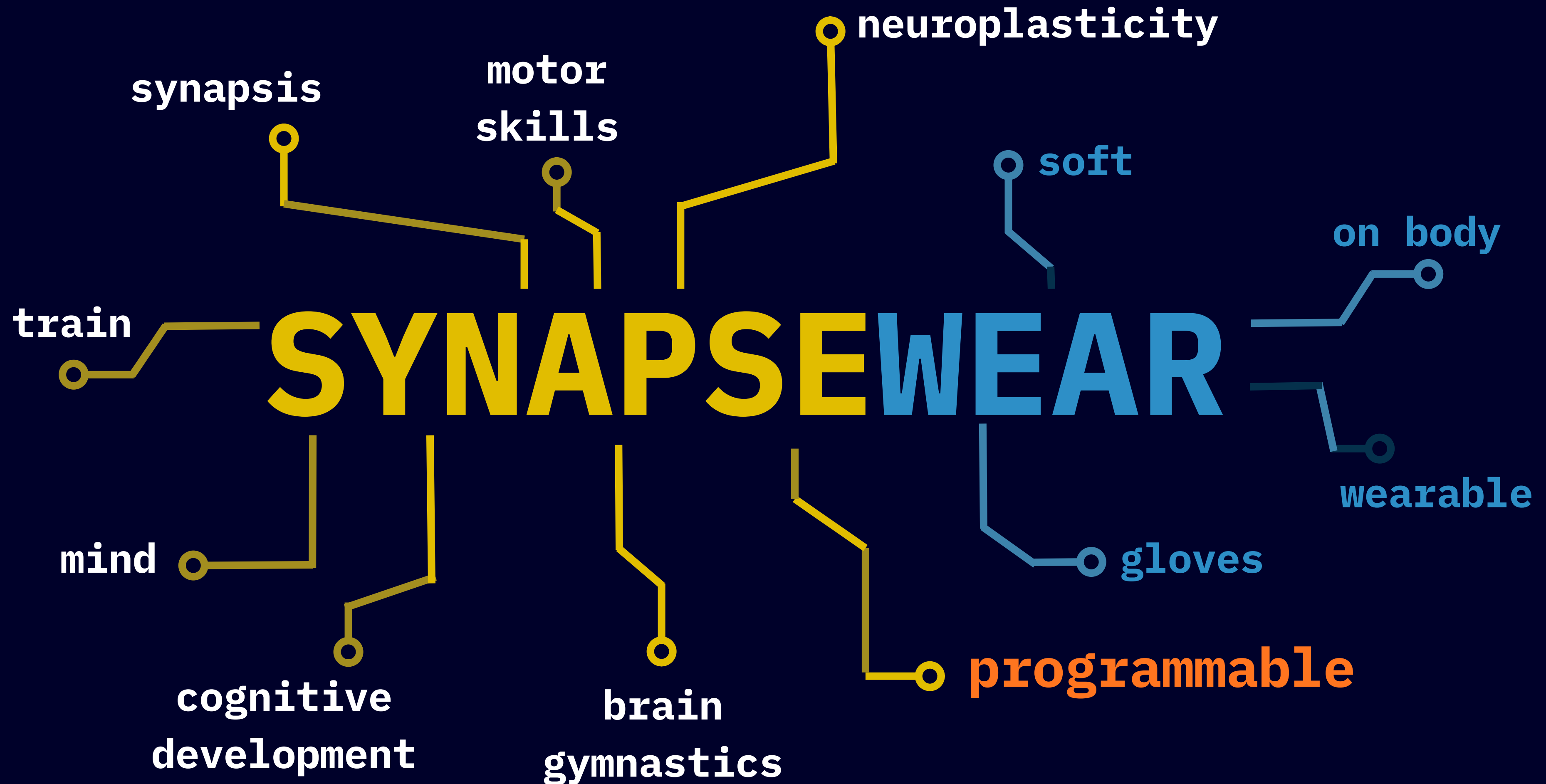
**ALL EXERCISE IS
GOOD TO THE BRAIN**

- (Godman, 2021)

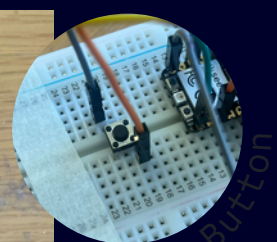
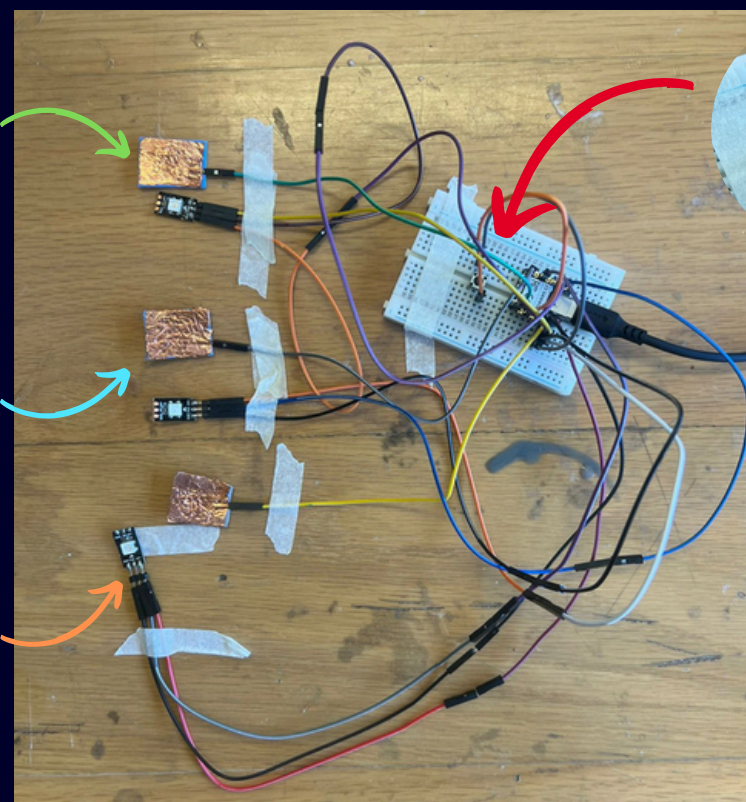
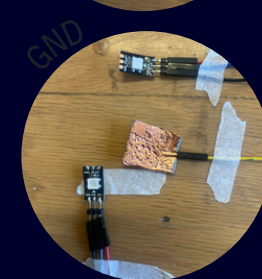
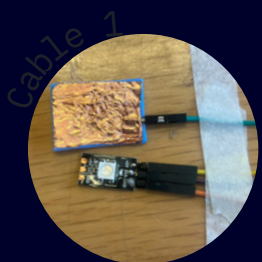
Why stop in hand-eye coordination?

Why stop in hand-eye coordination?

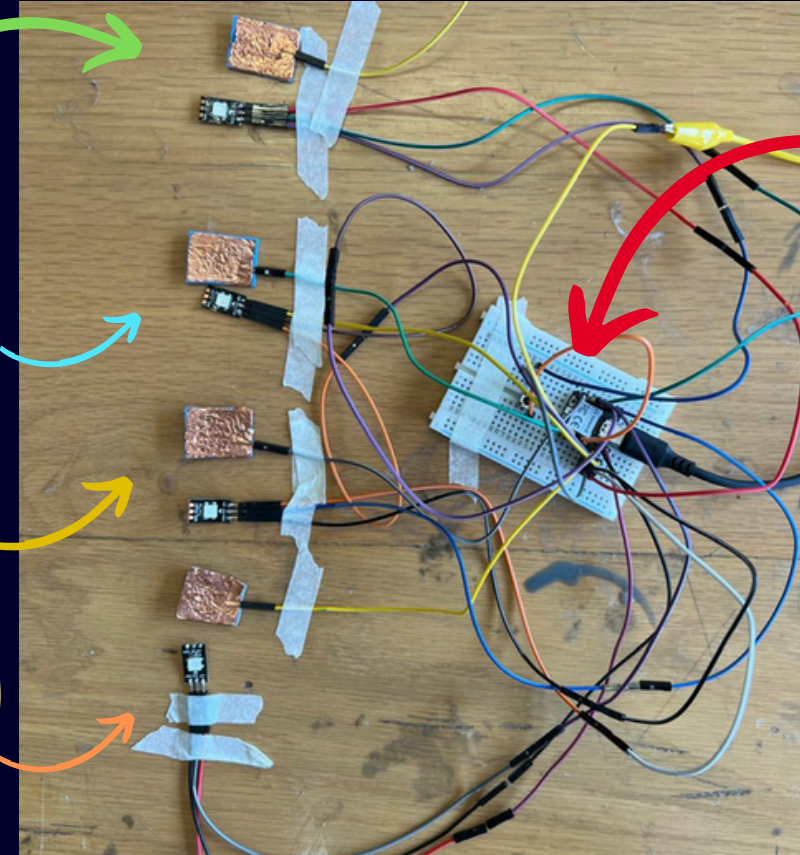
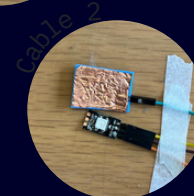
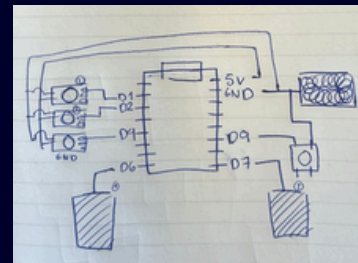
**What if I could combine
fine motor coordination
and improve other
cognitive functions?**



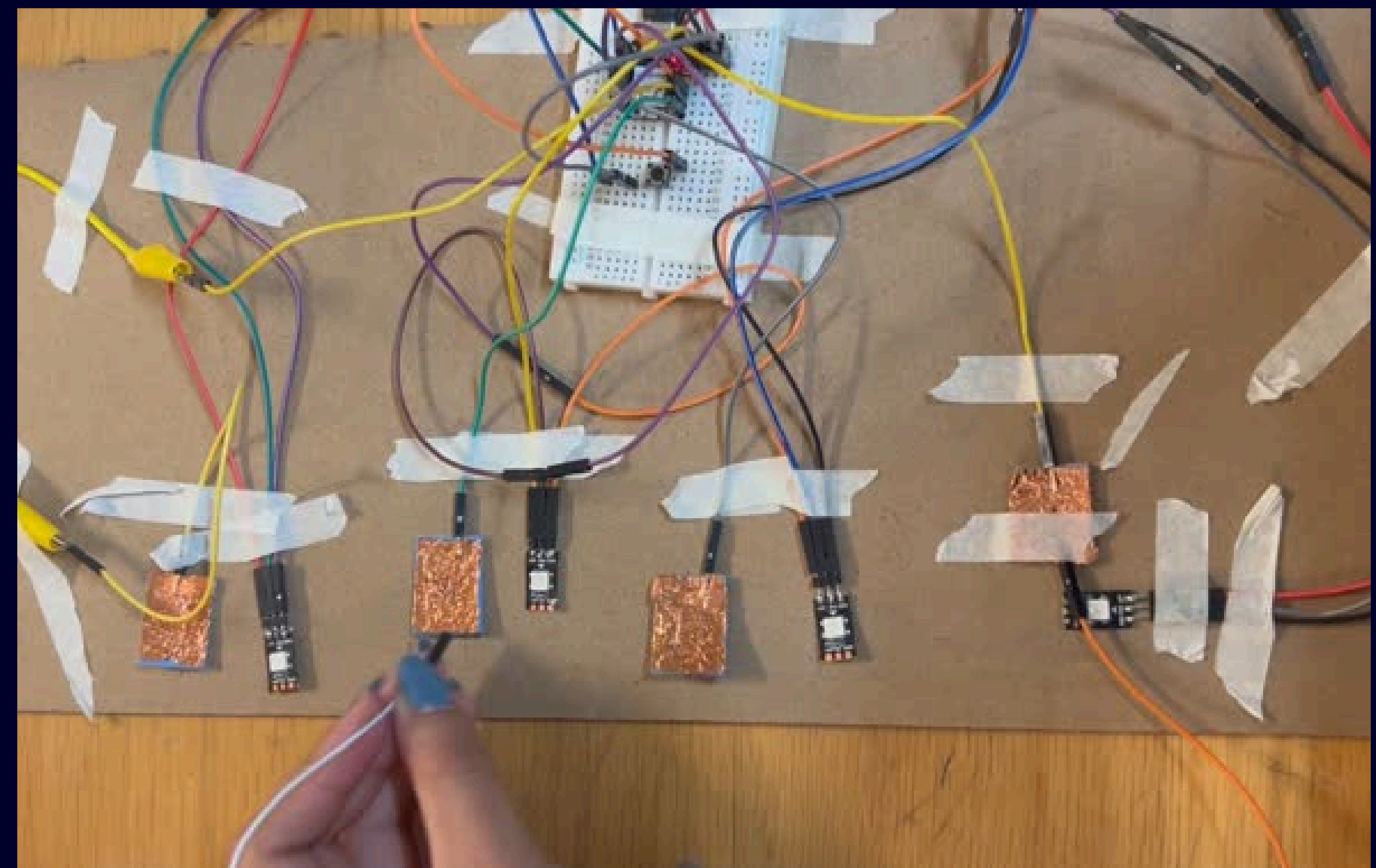
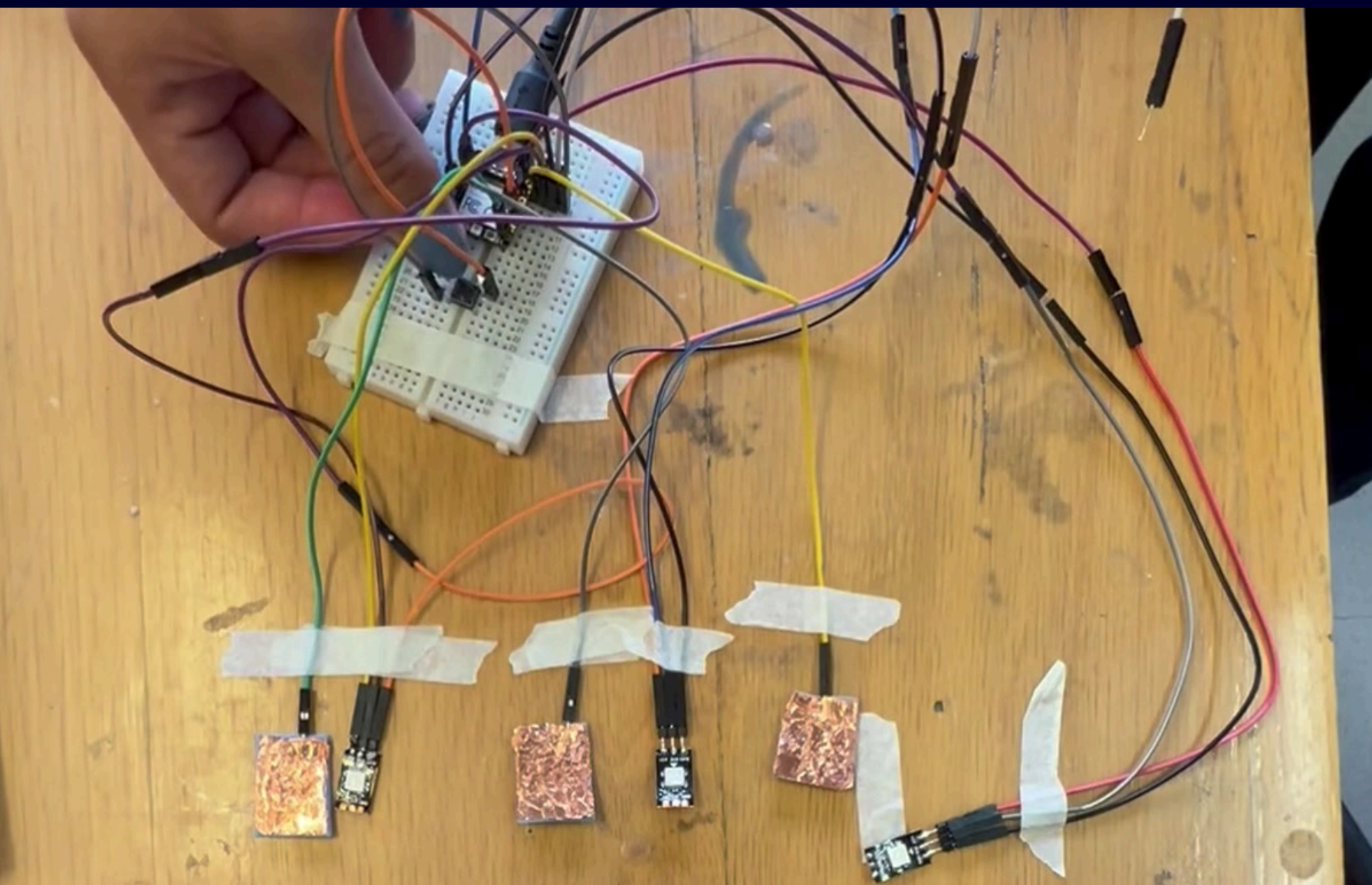
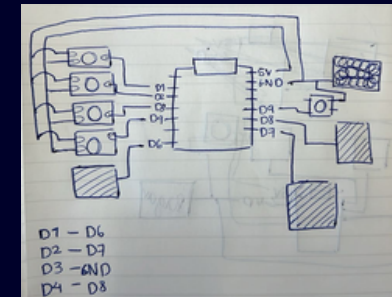
BUILDING



Schematic



Schematic





01



01



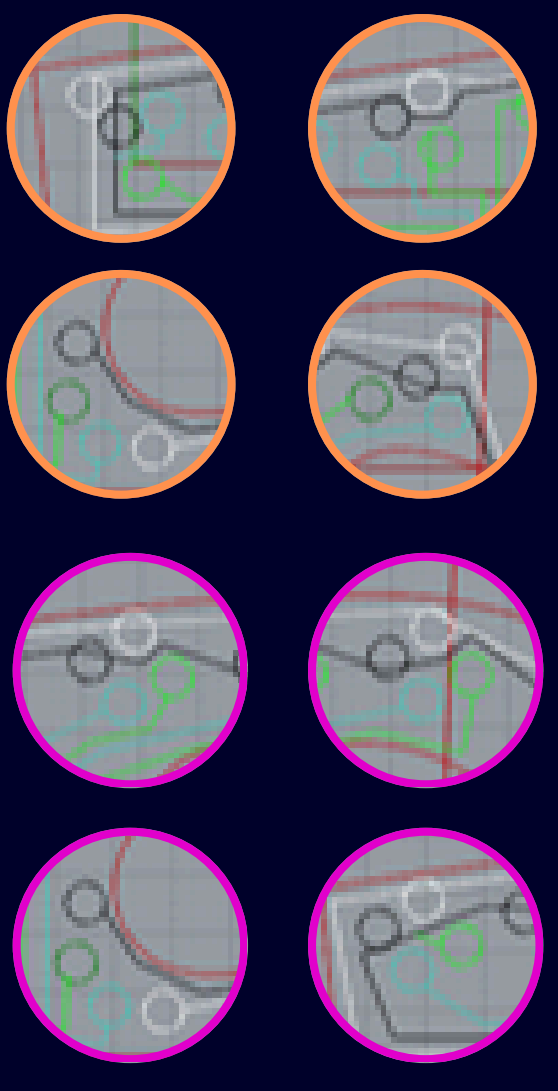
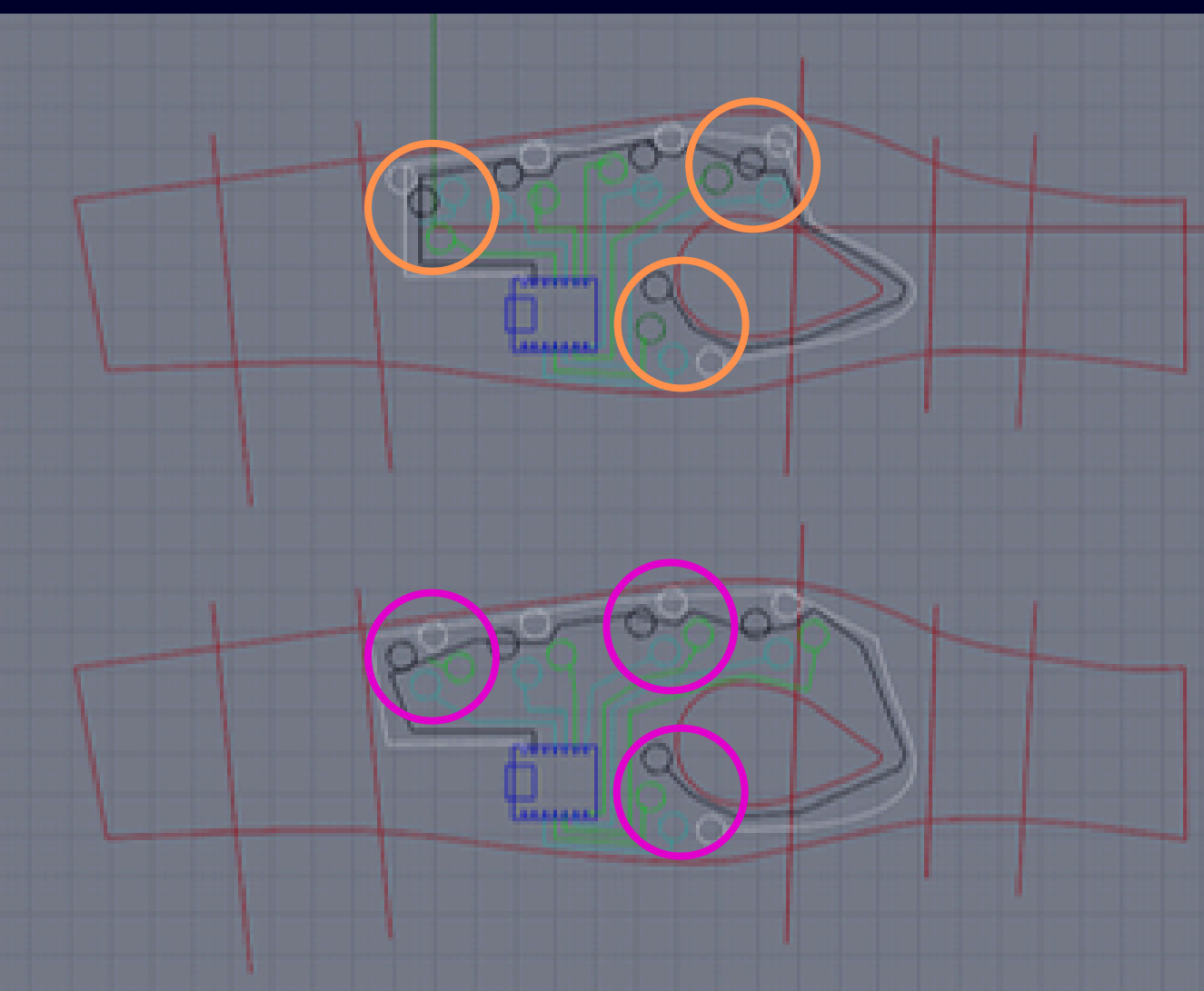
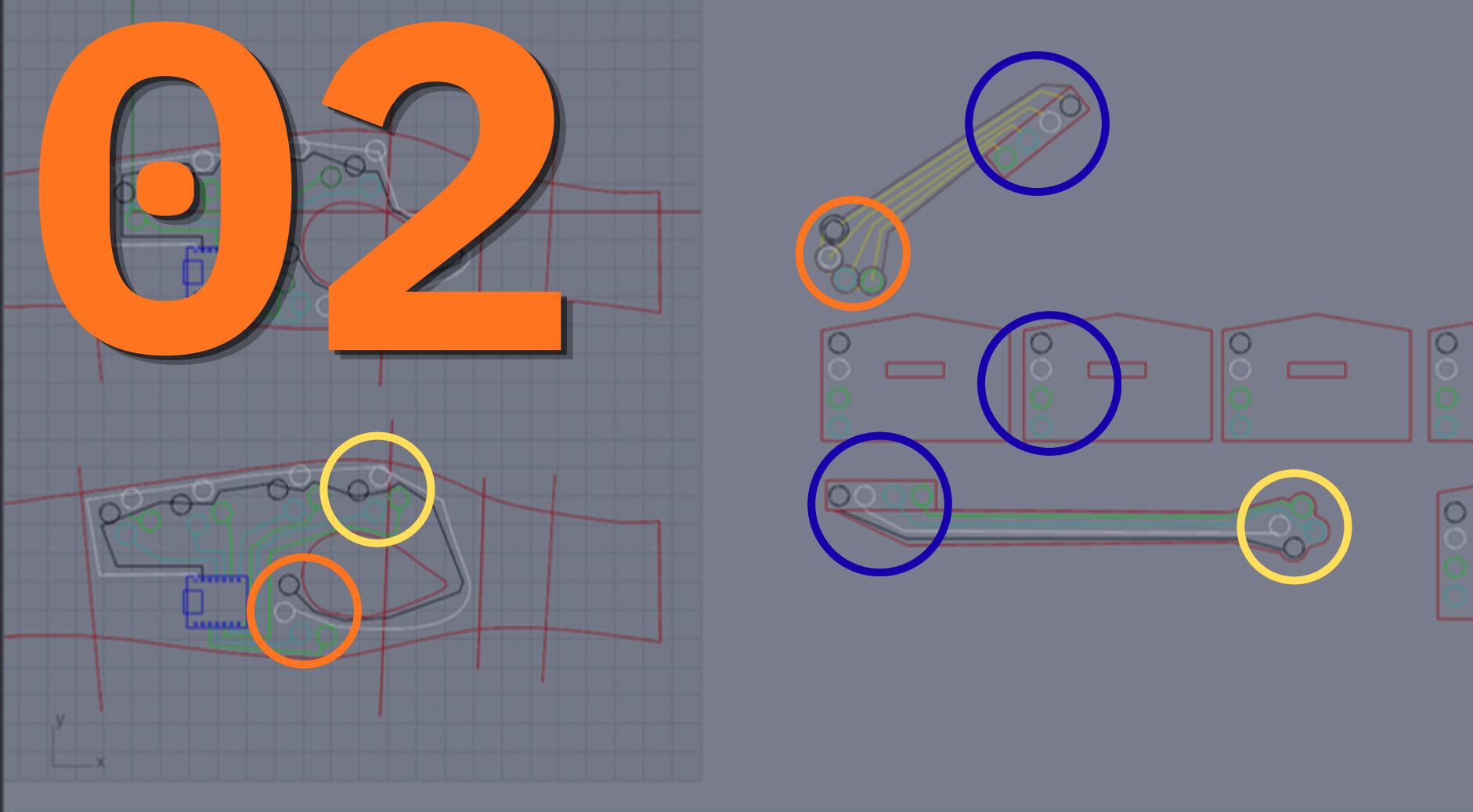
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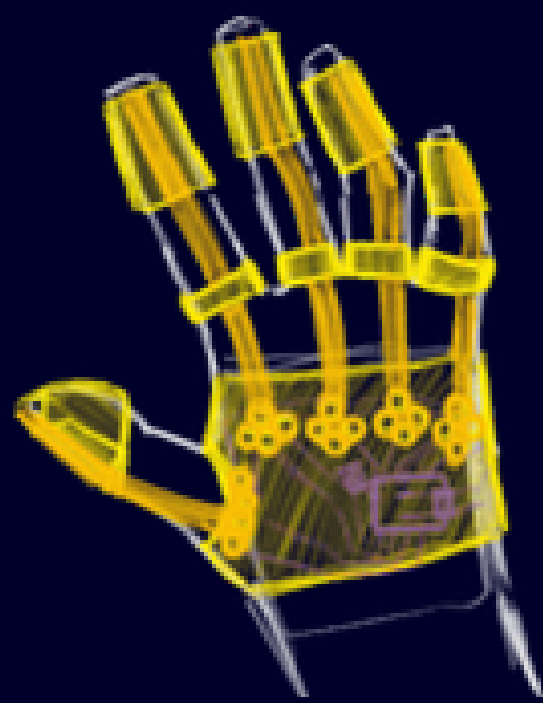


03



02

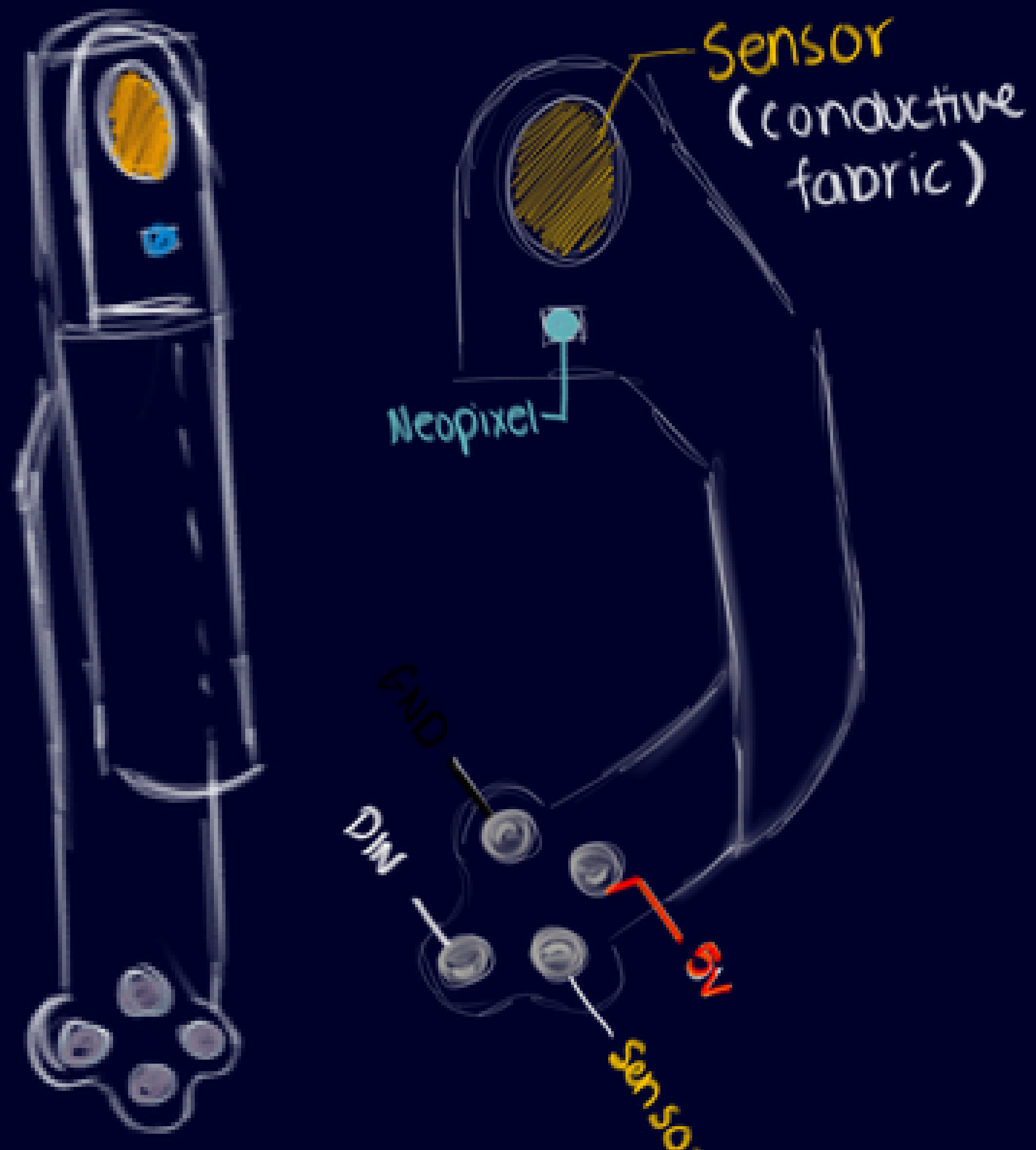




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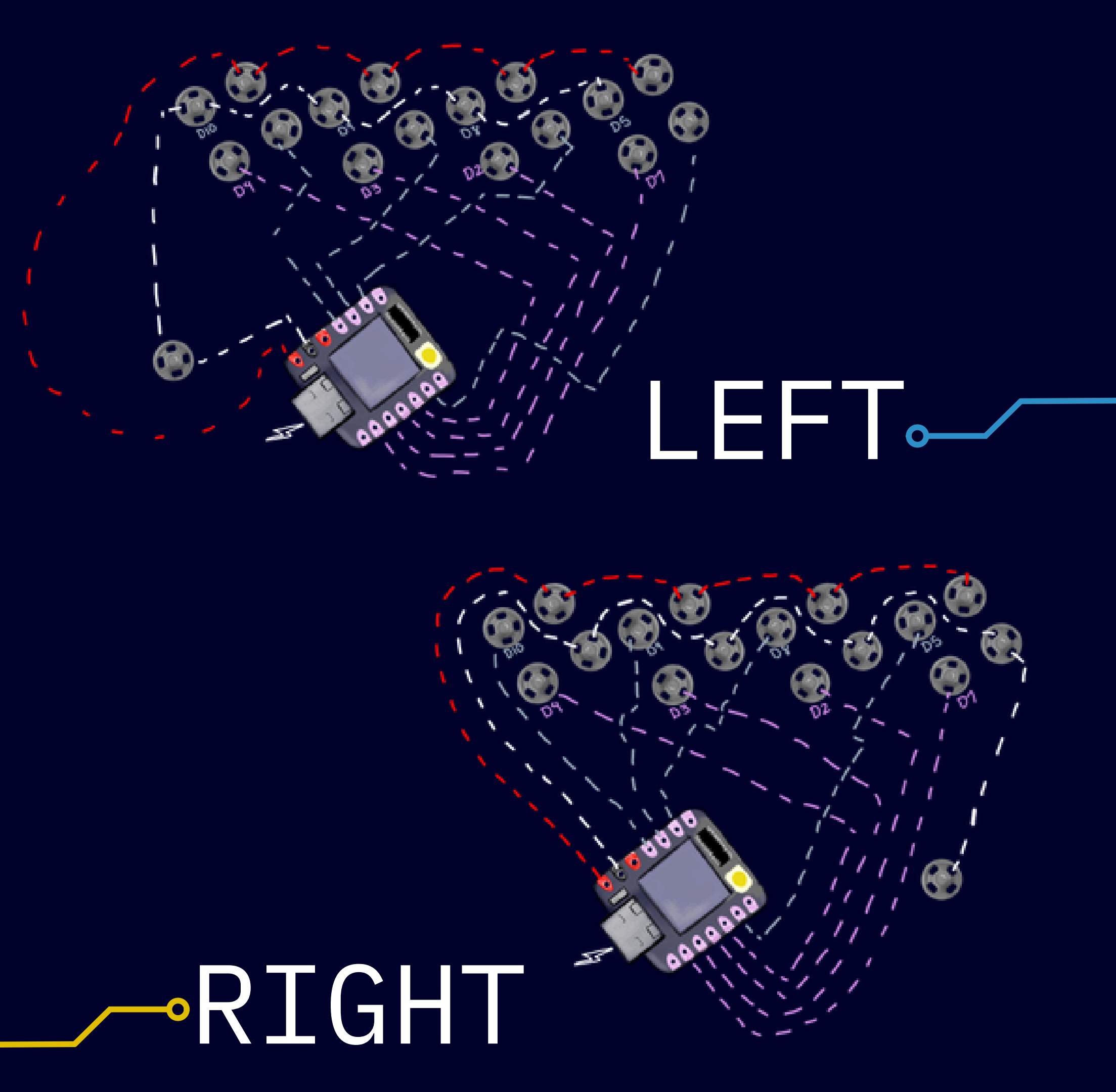


● Sewn
● Velcro



04









Neoprene

Conductive thread



Neopixels

Conductive fabric

Xiao ESP32S3

TRAINING THE MIND

CAN BE SIMPLE AS

PLAYING

As long as there is an
stimulus to follow, and a
response

The brain activates, a
connection strengthens and
the mind adapts

NO MORE REFLEX
JUST PRECISION

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