

The Fisher-Price logo, featuring the brand name in white lowercase letters on a red background with a scalloped bottom edge.

fisher-price®

The title 'My First Sequencer' in a white, rounded, sans-serif font, with a trademark symbol (TM) at the end. It is centered within a blue rounded rectangle.

My First Sequencer™

A line of white text on a dark blue rounded background, stating 'A instrument so simple, a 5-year-old could play it.'

A instrument so simple, a 5-year-old could play it.

The text 'GENED 1080: Gail Alderson' in white, sans-serif font, located in the bottom left corner.

GENED 1080: Gail Alderson

being a music
n00b sucks



but why?

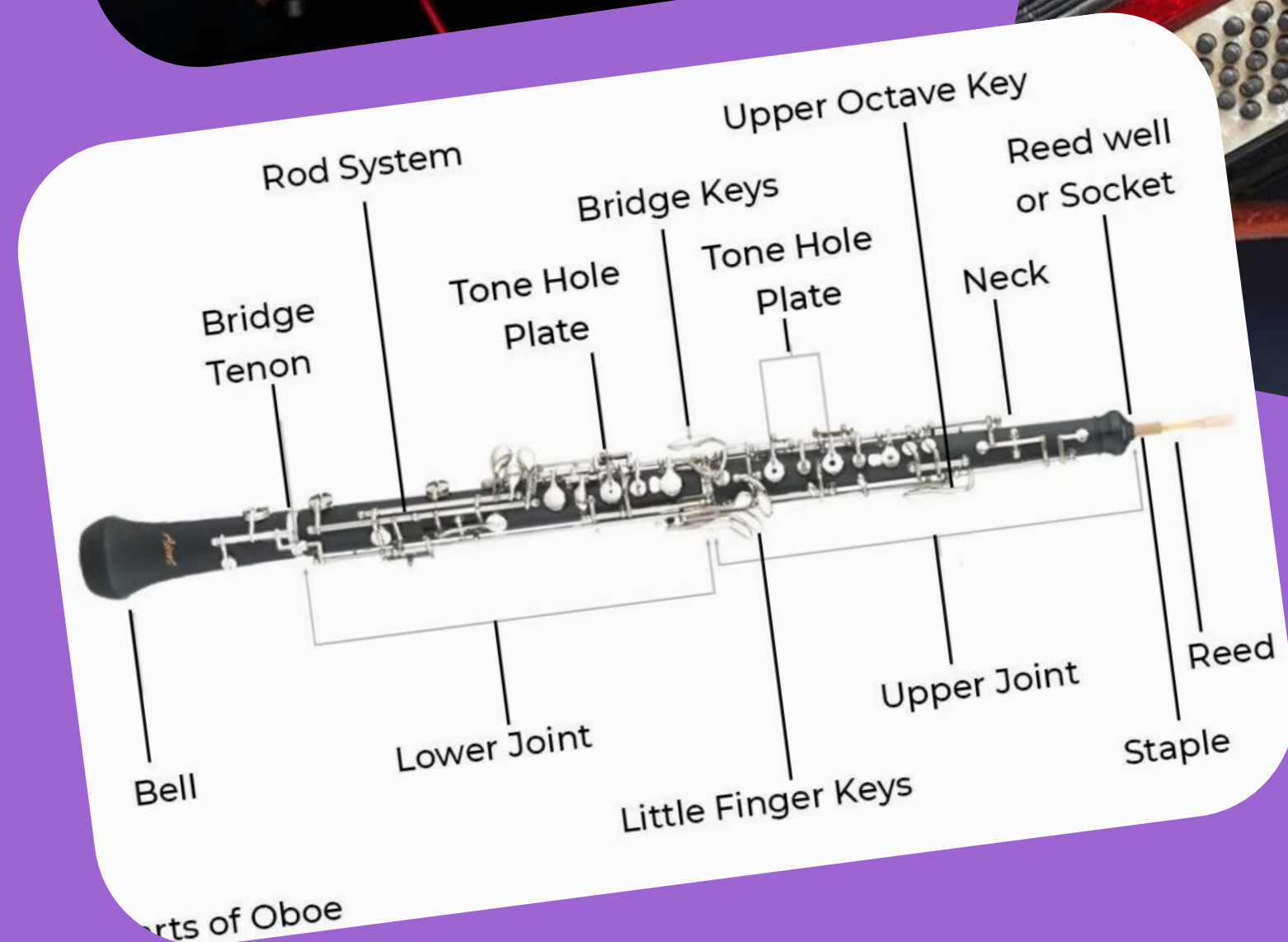
being a music
n00b sucks





well, lots of reasons

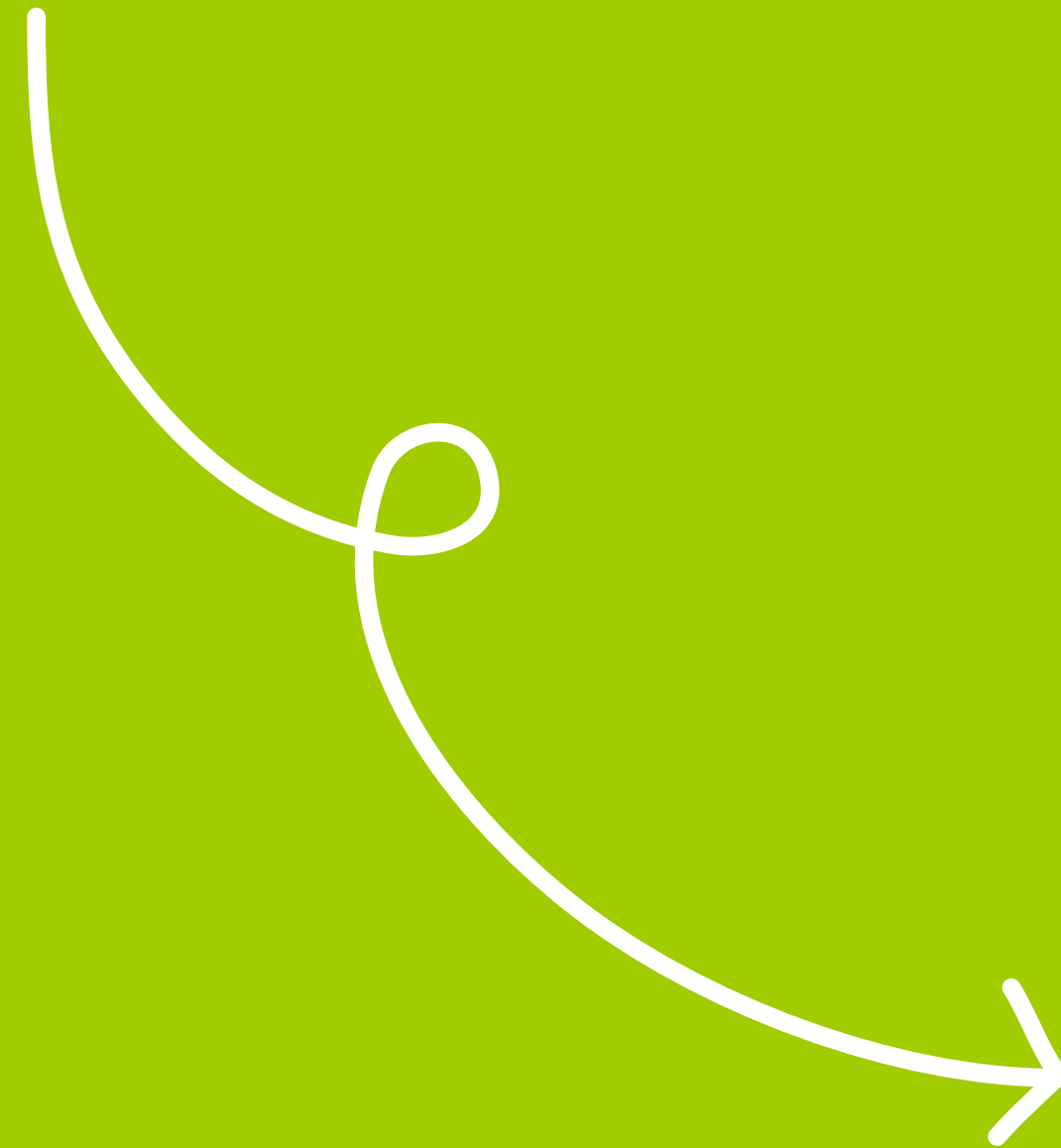
#1 – they're hard to play



#2 – it's hard to sound good



how do we make an instrument
for n00bs that encourages
discovery and play?



1. Simplify the controls
2. Make it easy to sound good

1. Simplify the controls

16 steps



8 steps



thousands of waveforms



4 waveforms



12 notes per scale



7 notes per scale



2. Make it easy to sound good

- Auto-adjust to keep bass and melody in same key
- Enable easy discovery of mixing/matching new waveforms
- Continuous looping to encourage “happy accidents”

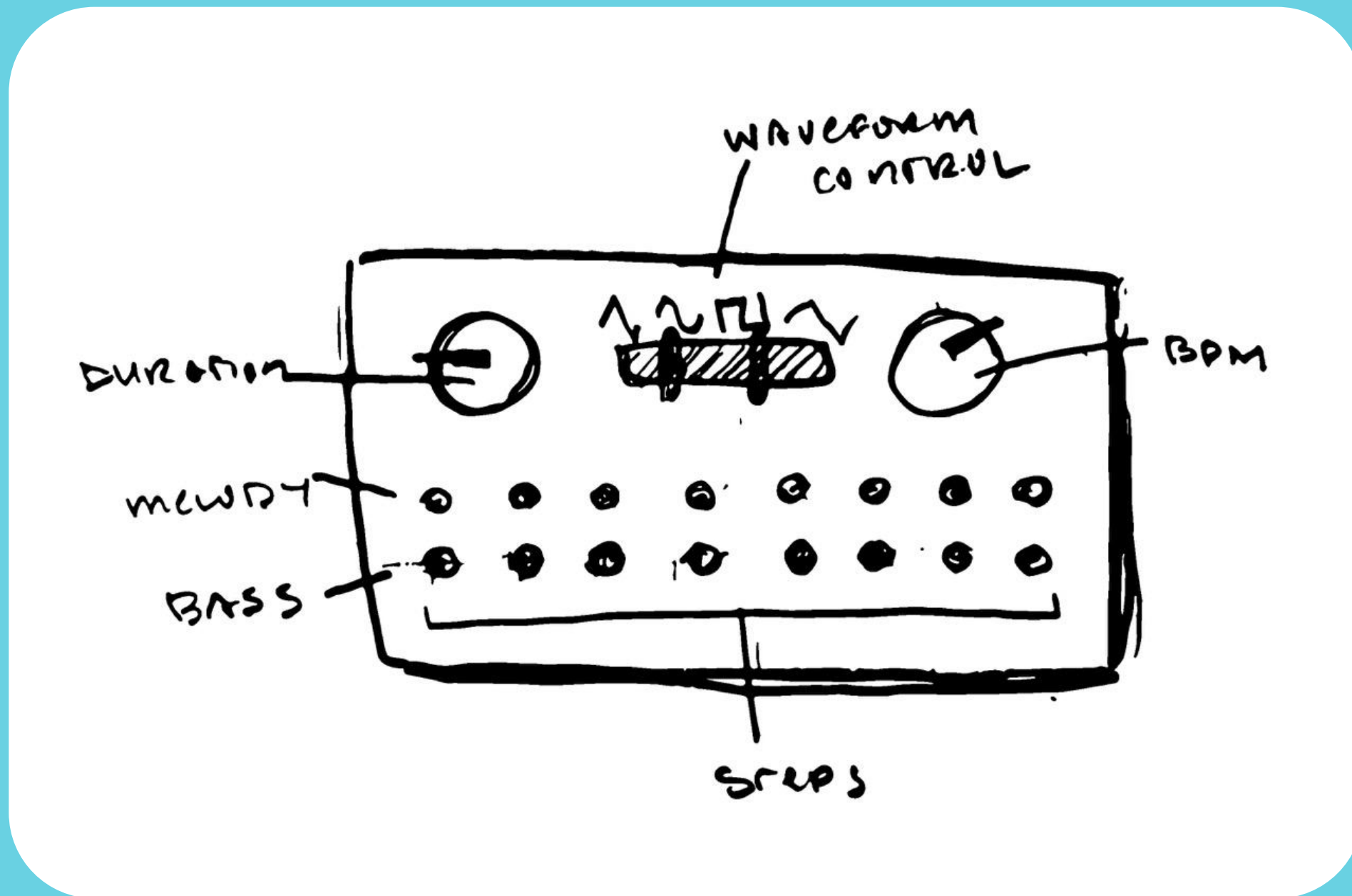


the design process

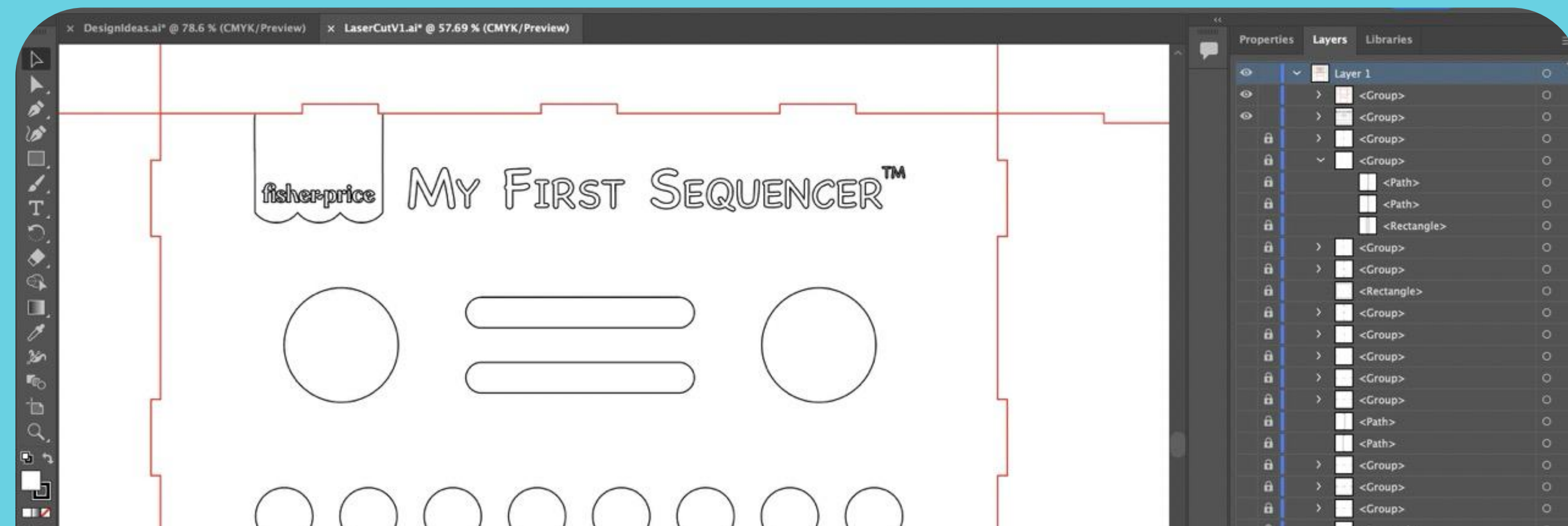


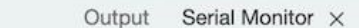
sketching

prototyping w/ cardboard



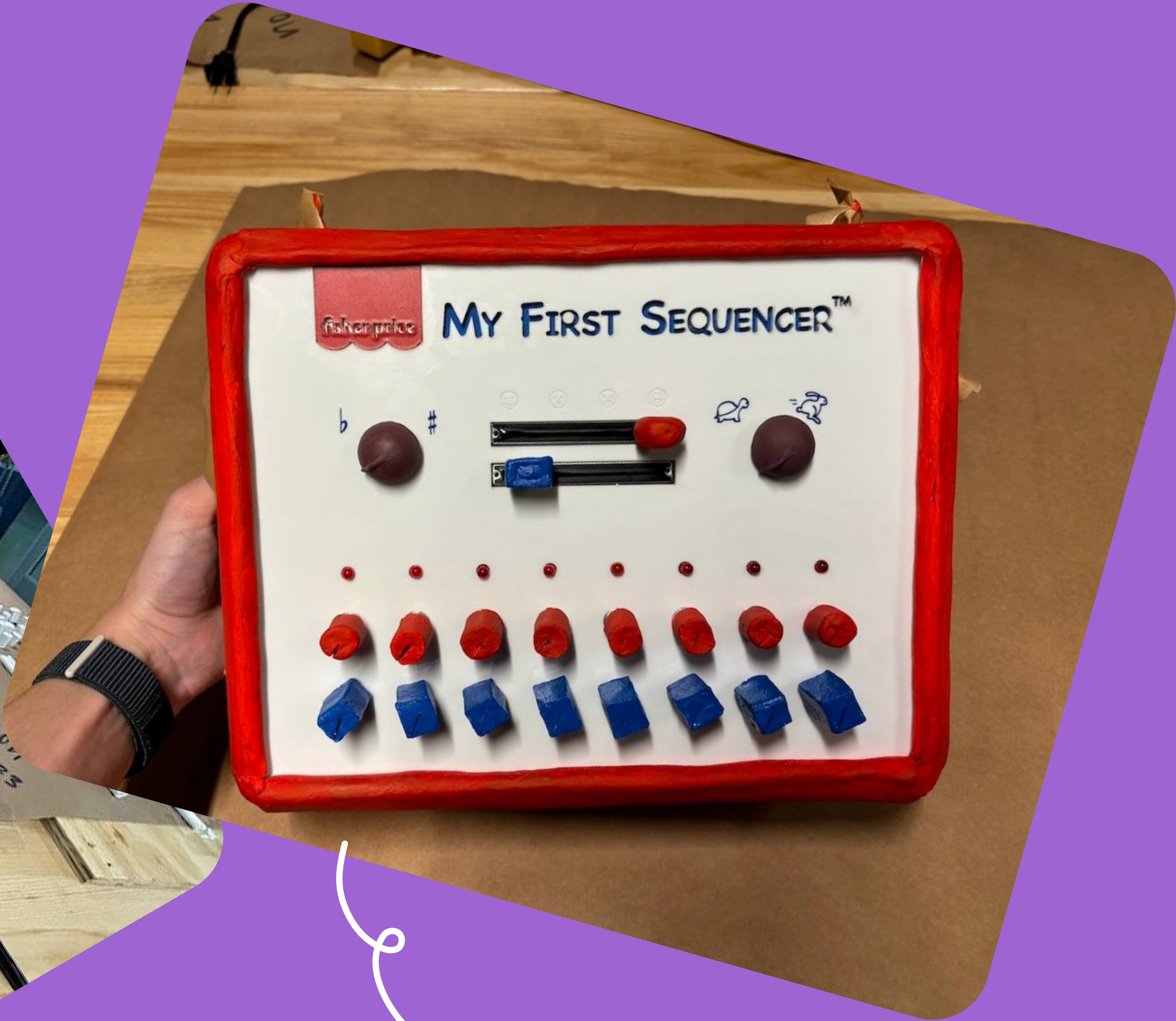
laser cutting





```
20:23:30.538 -> dialValues1[2]: 48
20:23:30.538 -> dialValues1[3]: 48
20:23:30.538 -> dialValues1[4]: 48
20:23:30.538 -> dialValues1[5]: 60
20:23:30.538 -> dialValues1[6]: 60
```

assembly!



Awarded "TA's choice" in class of 100+

