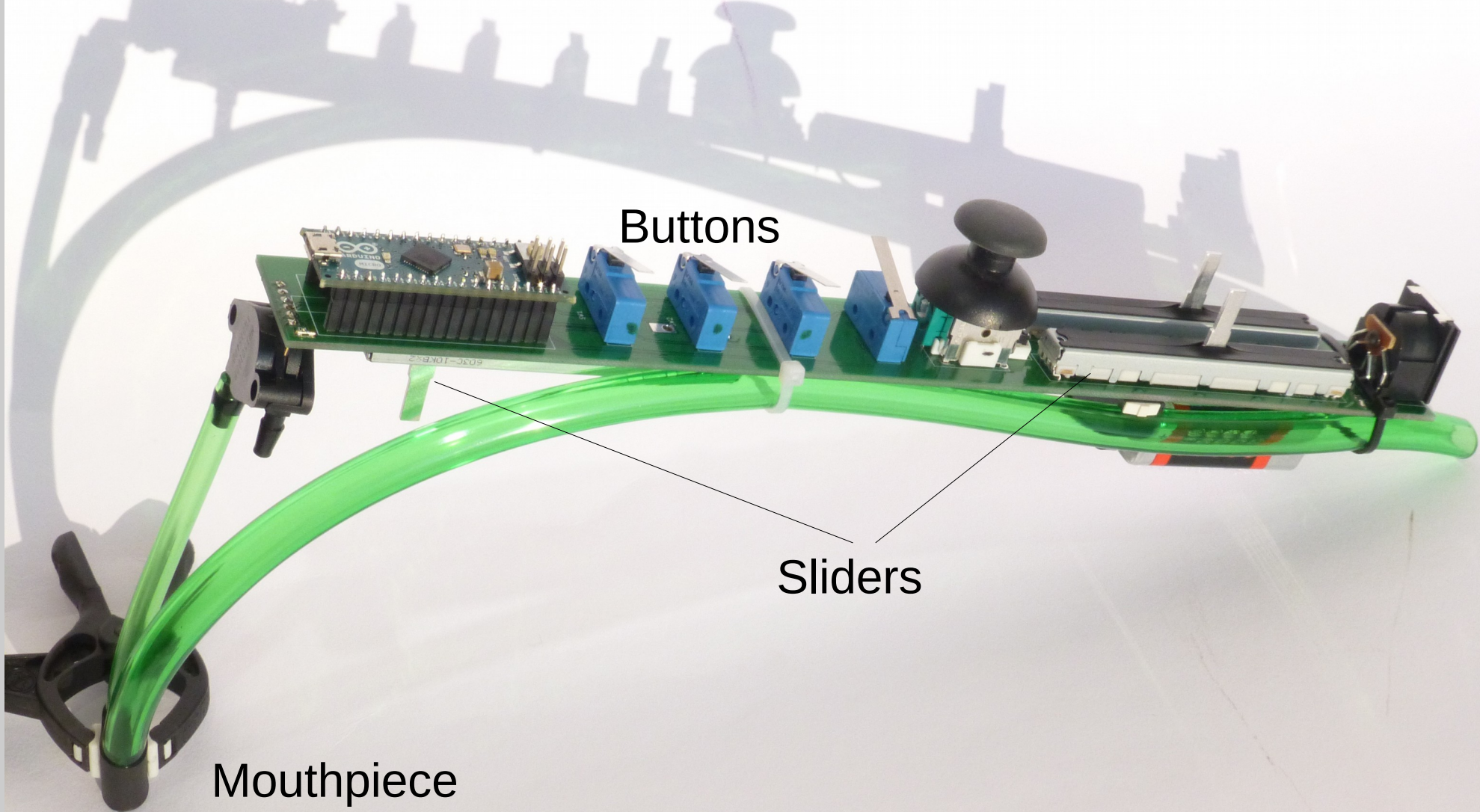


The NibbleTronic

A MIDI Wind Controller

Outline

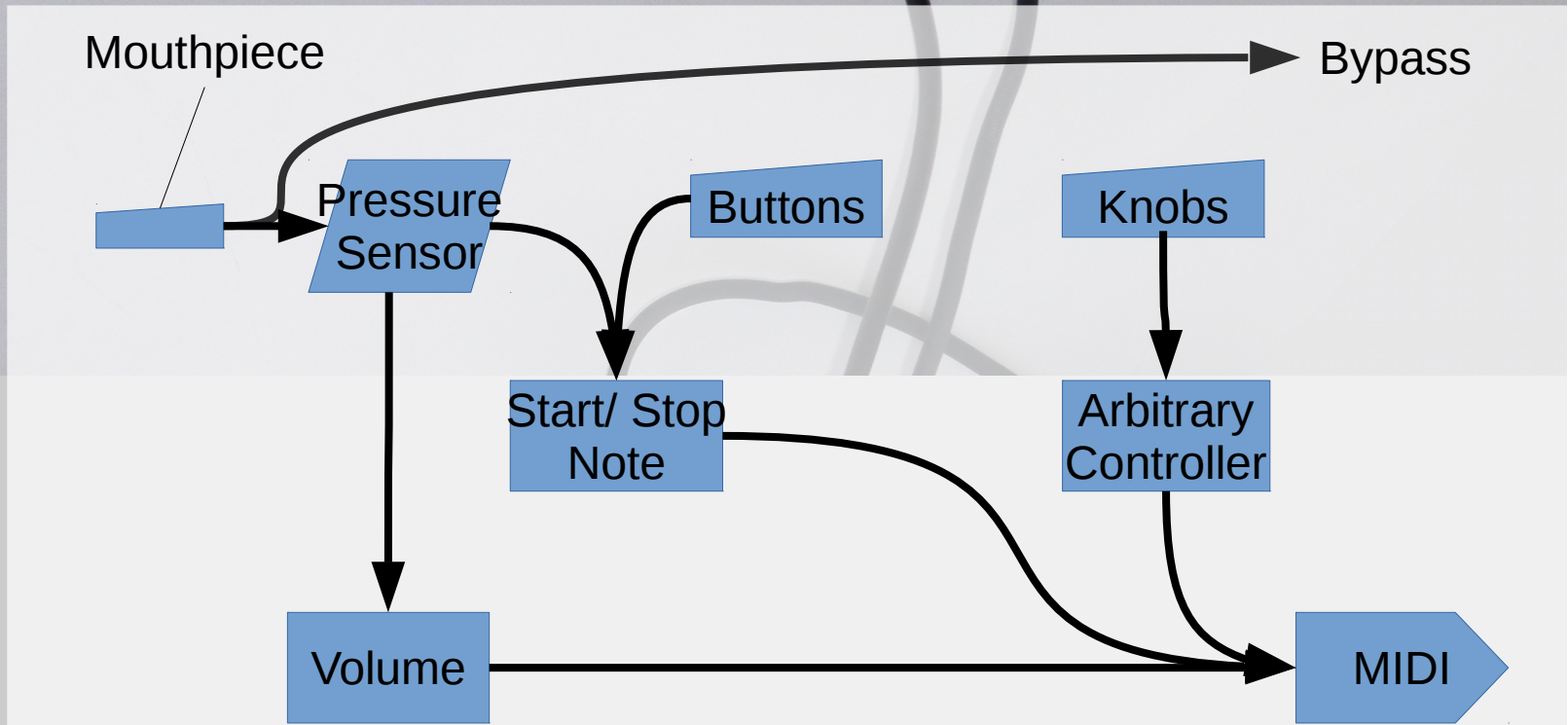
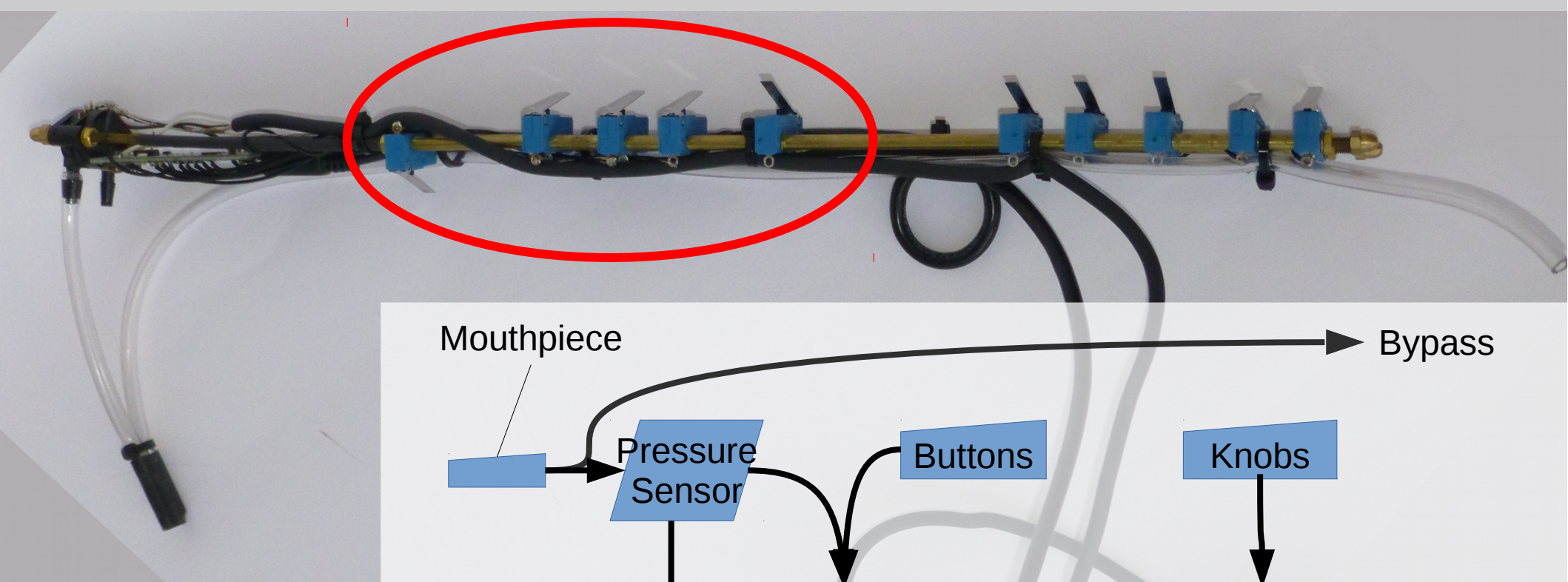
- The NibbleTronic electronic wind instrument (EWI)
- Its development
- Other EWIs
- Reflections on the role of EWIs



Buttons

Sliders

Mouthpiece



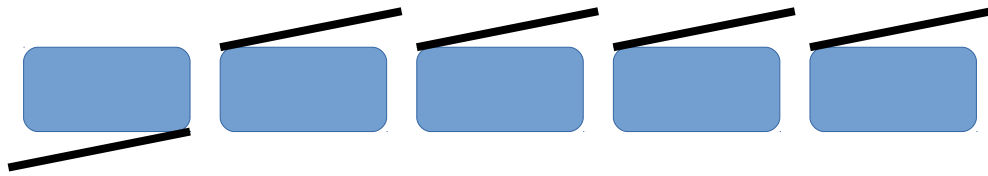
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8

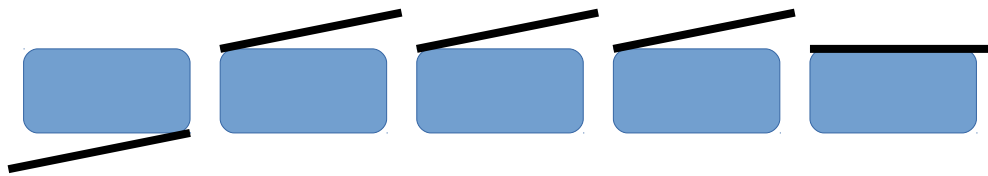
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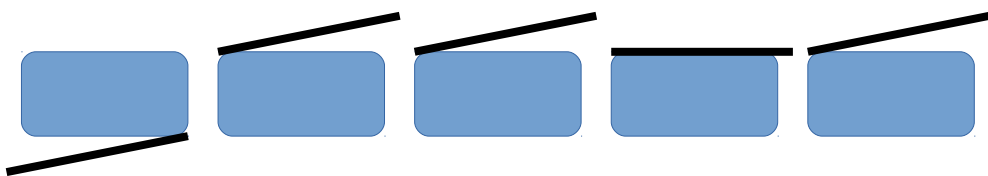
1



= 0



= 1

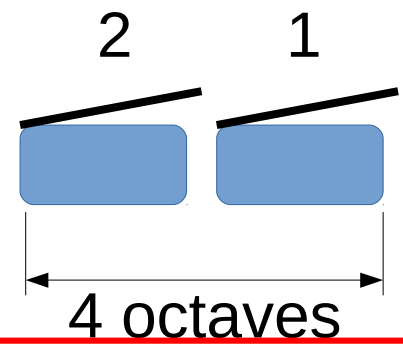
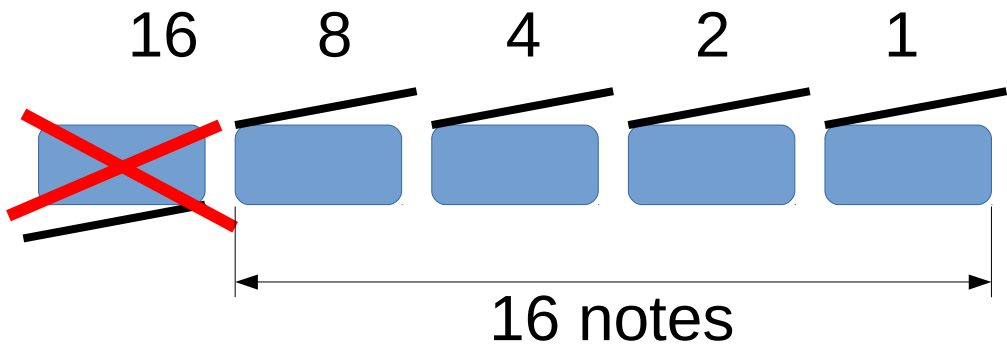


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...



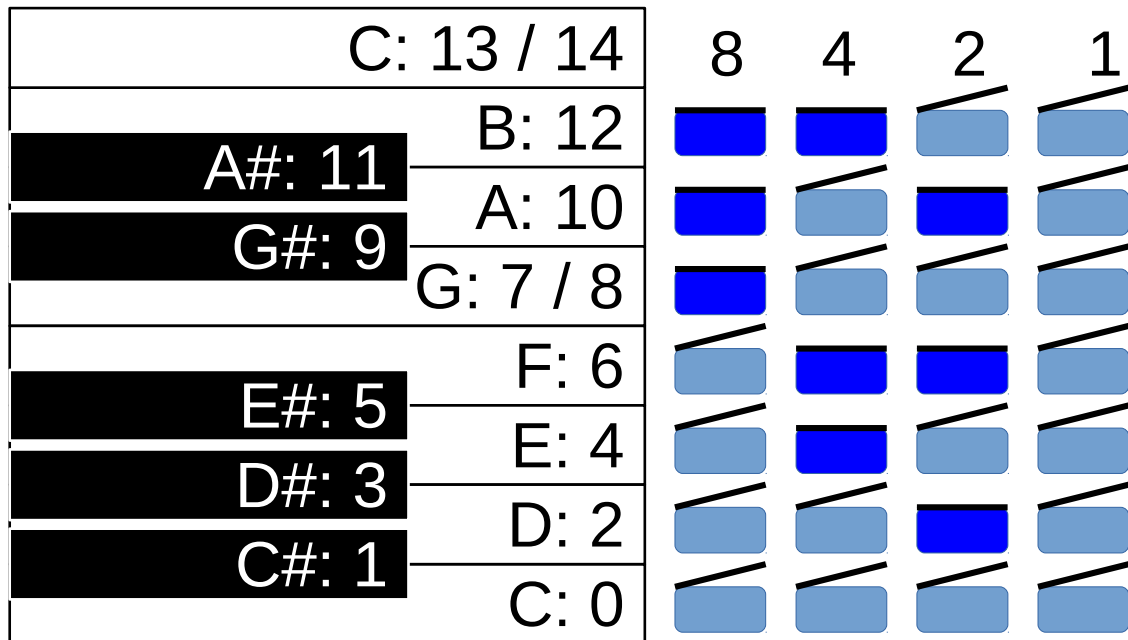
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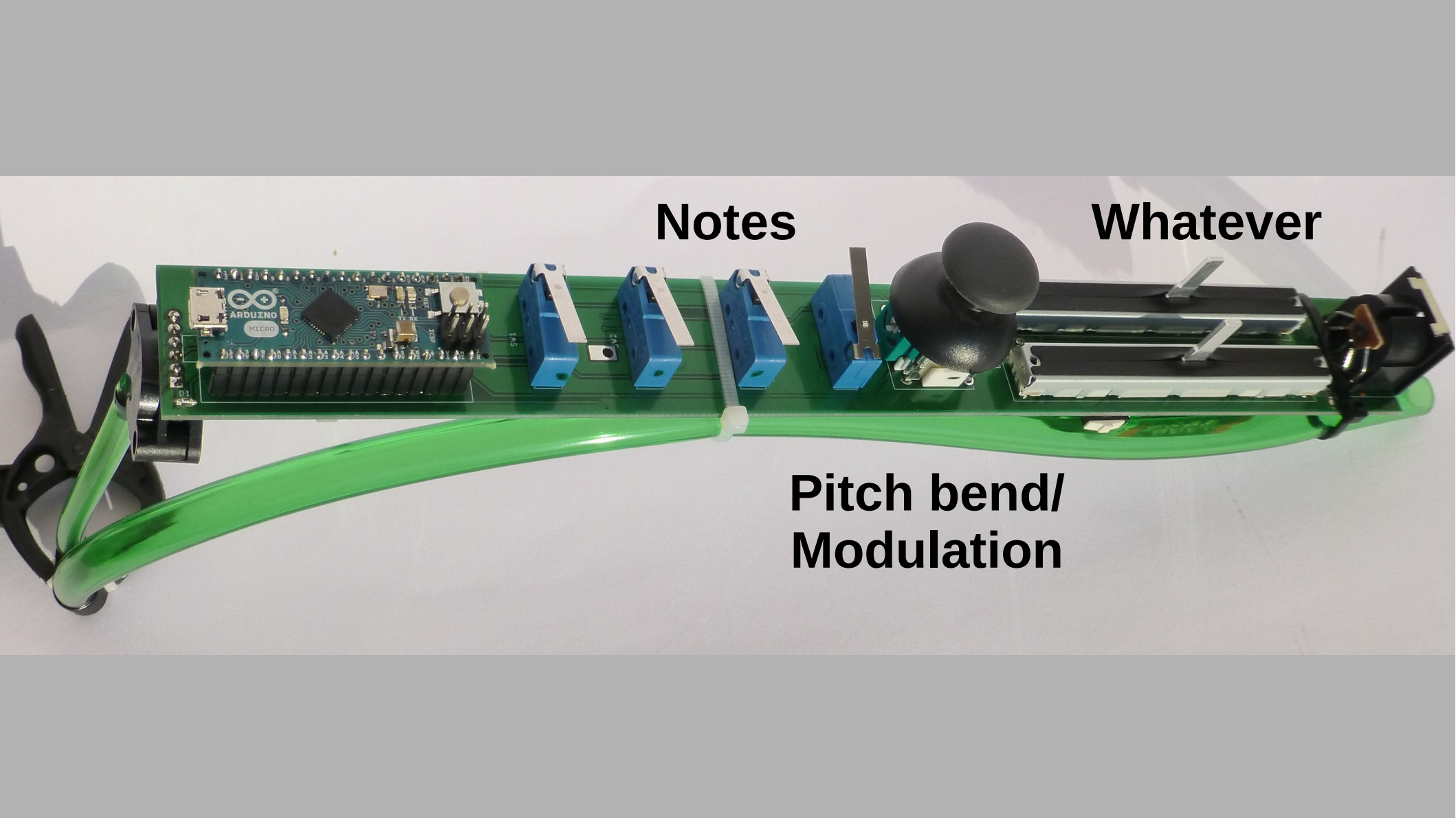


	B: 11
A#: 10	A: 9
G#: 8	G: 7
	F: 6
E#: 5	E: 4
D#: 3	D: 2
C#: 1	C: 0



C: 13 / 14	
	B: 12
A#: 11	A: 10
G#: 9	G: 7 / 8
	F: 6
E#: 5	E: 4
D#: 3	D: 2
C#: 1	C: 0

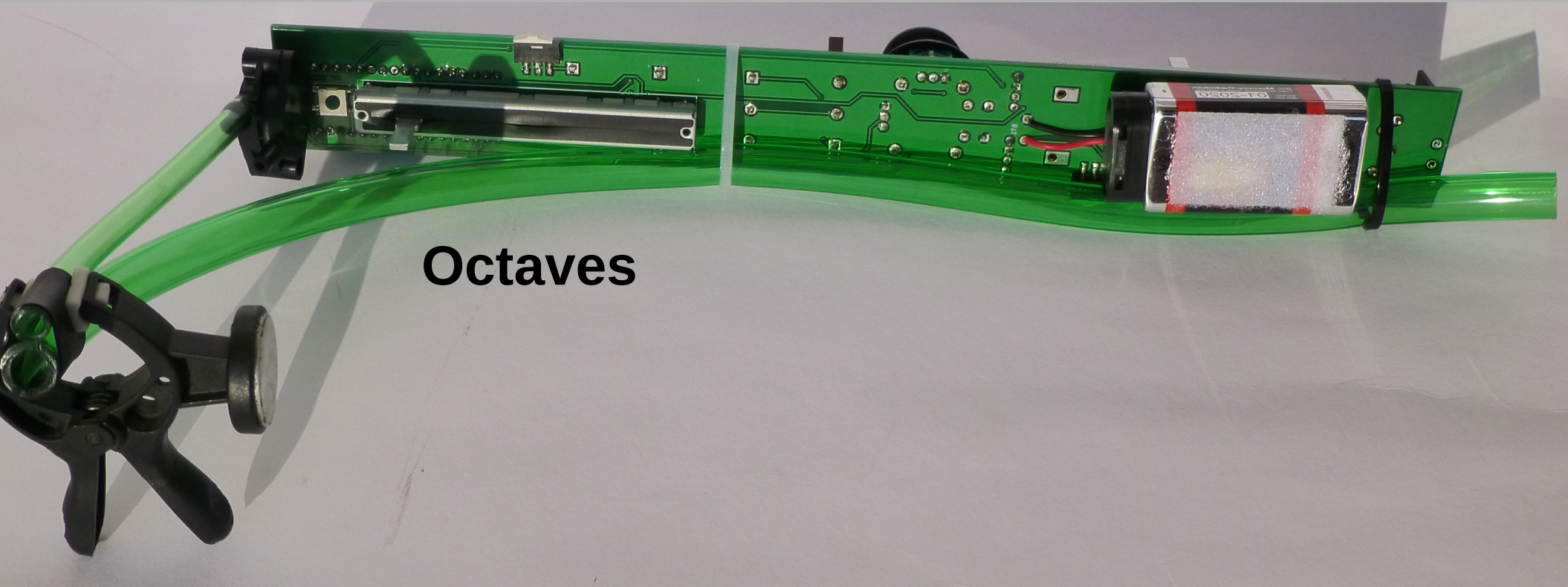




Notes

Whatever

**Pitch bend/
Modulation**



Octaves



Ho
E

control
Strip Mount
CC Control
IR Distance Sensor

USB Bus
Computer
USB Connection

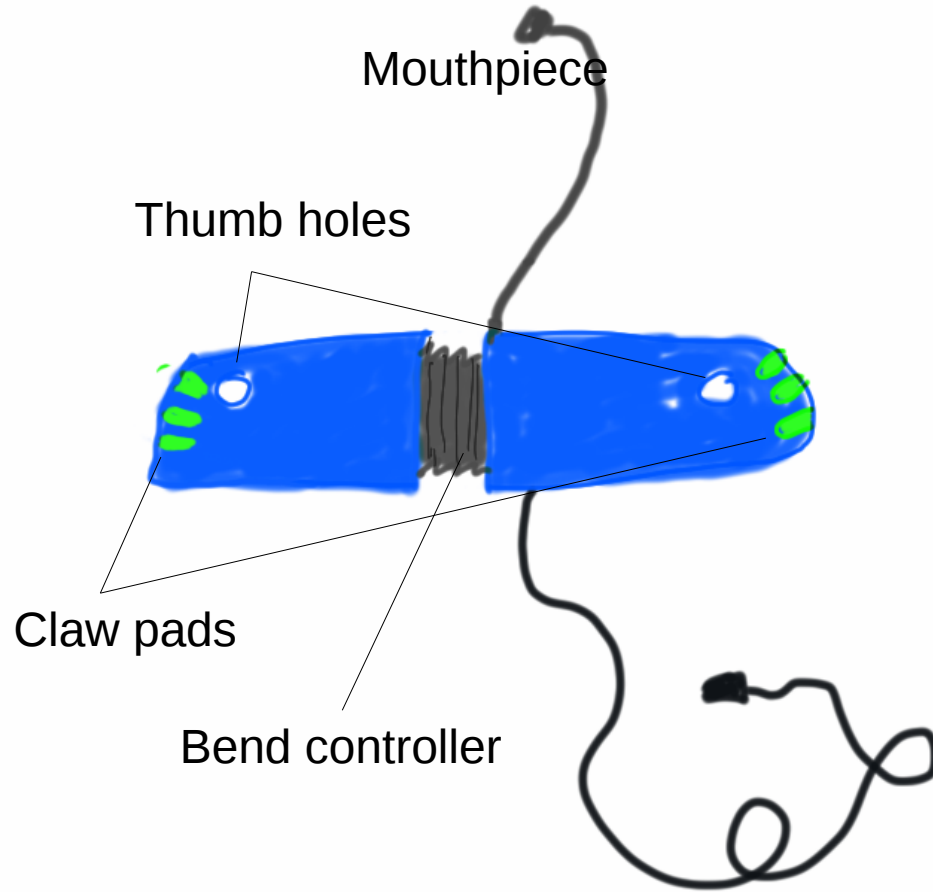
EW15000
DIGITAL ELECTRONIC WIND INSTRUMENT

AKAI

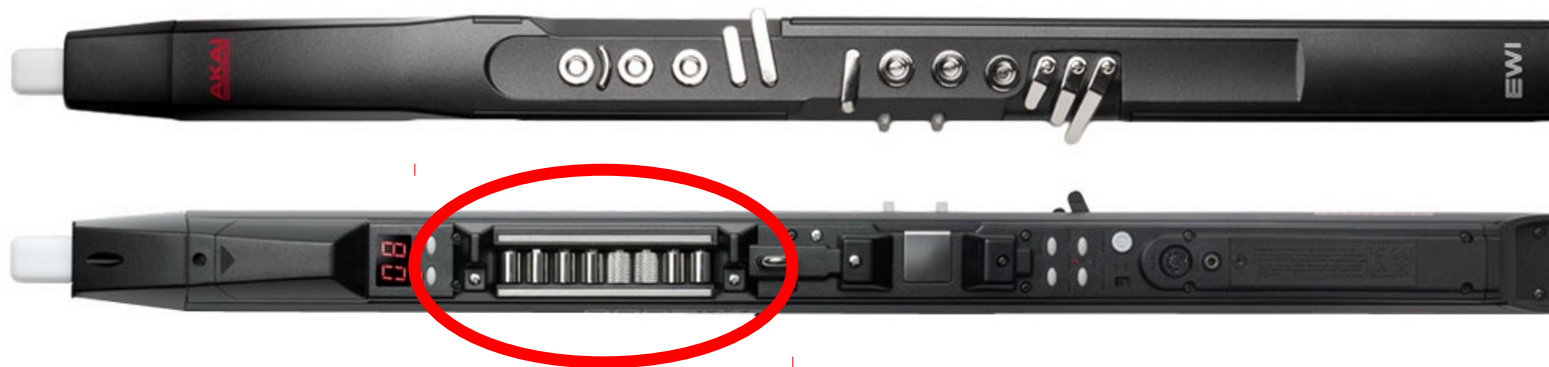
Reasons to use an EWI

- Practice in silence
- Create a unique sound
- Do things that traditional instruments can't
 - Record input instead of sound
 - Quantize input
- Use a non traditional control scheme
 - Fewer buttons
 - Foot pedals

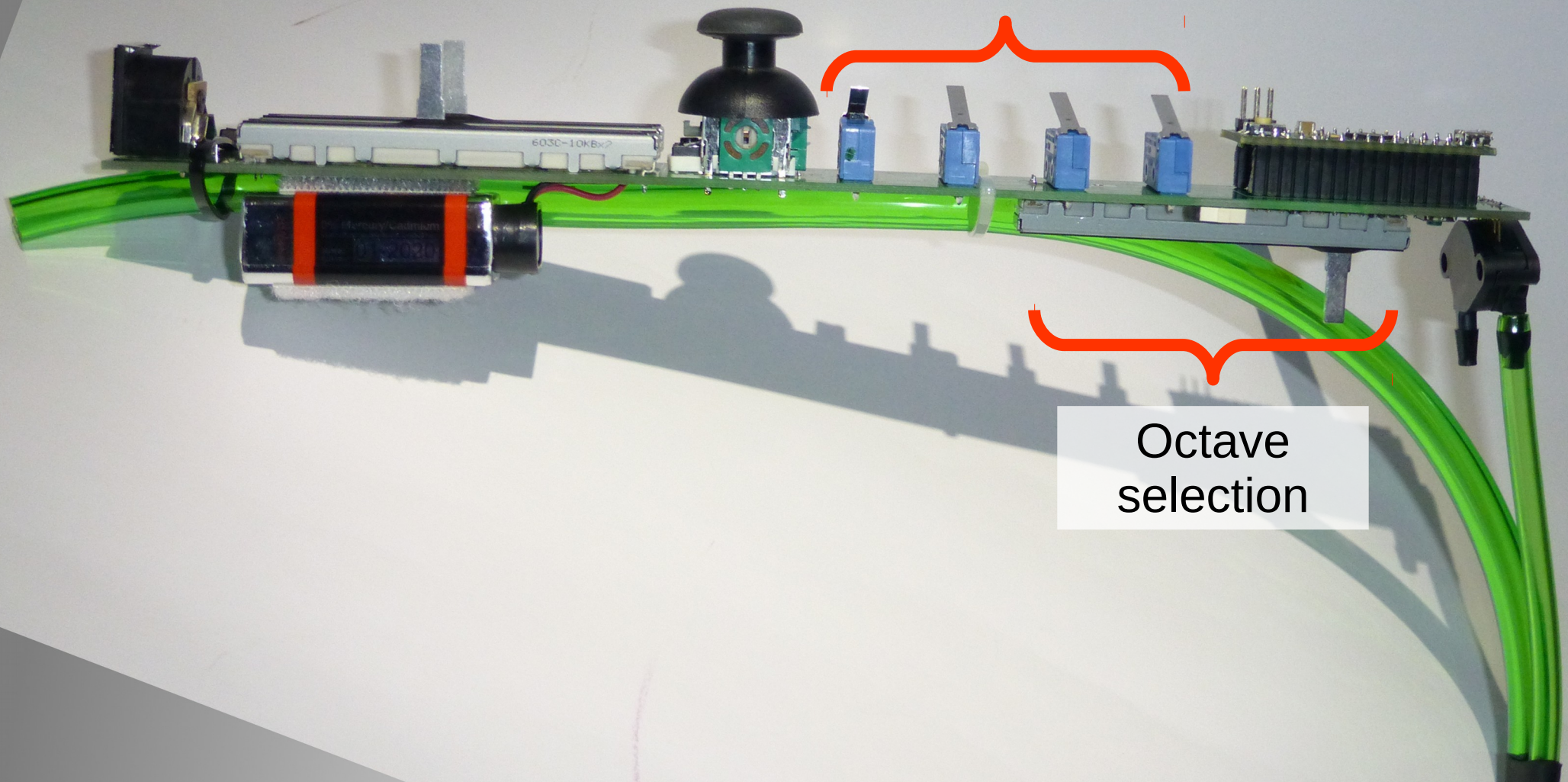
EWI for a T-Rex



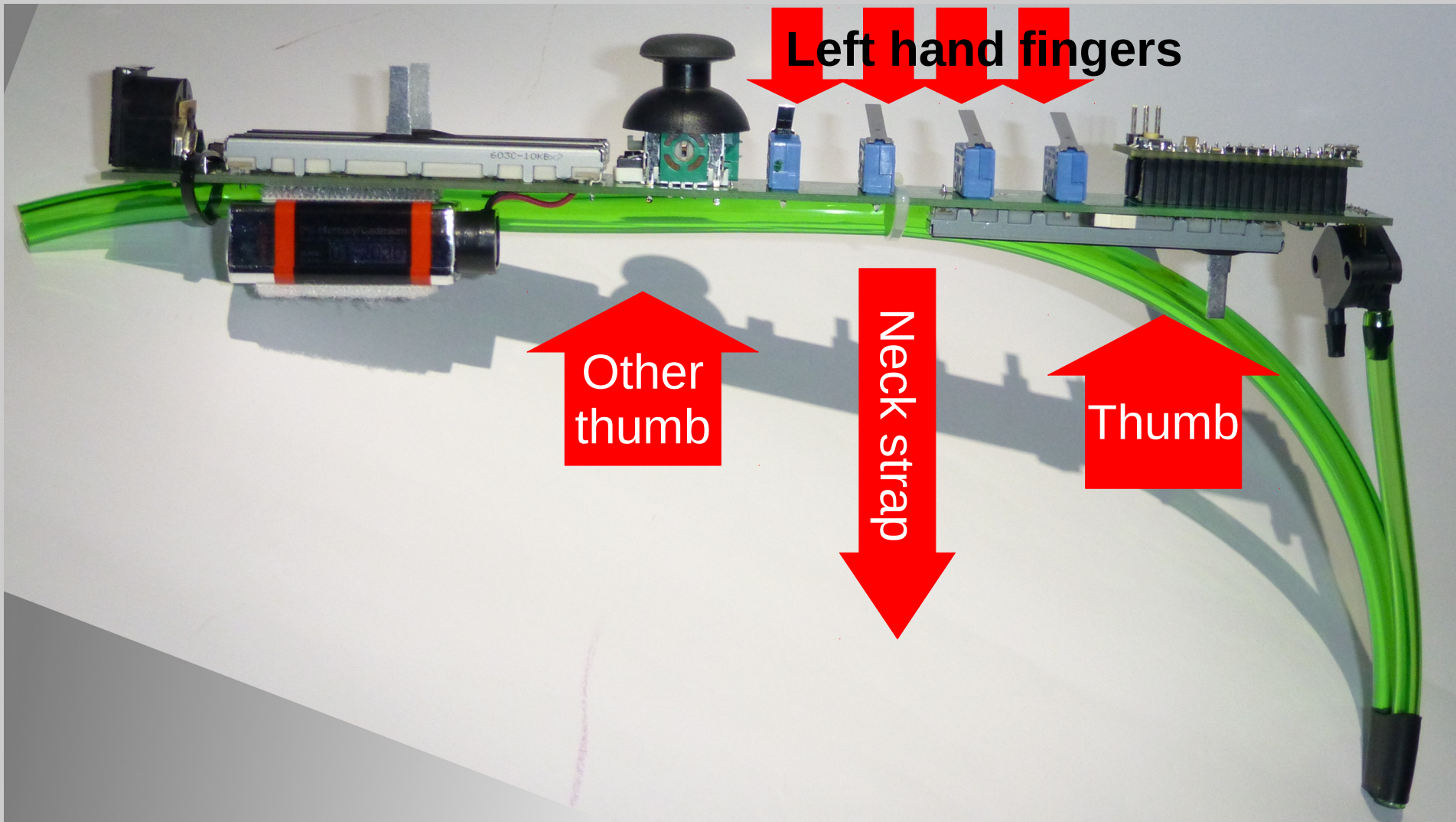
A Mystery



Note
selection



Octave
selection



Left hand fingers

Other
thumb

Neck strap

Thumb

Parallel Evolution



- Metal rollers to change the octave
- React to touch rather than pressure
- Give great haptic feedback

Conclusions

- EWIs exist since the 60s
- They are well documented DIY projects
- Fill a niche
- You probably should build one

Sources

- The Gordophone blog: <http://gordophone.blogspot.de/>
- Patchman Music: <http://www.patchmanmusic.com/>
- Hopkins Electronic Aerophone:
<https://hackaday.io/project/2992-hopkins-electronic-aerophone>
- NibbleTronic:
<http://www.schlimme-gegen.de/schlimme-ideen/nibbletronic/>

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