

LAND ACKNOWLEDGEMENT

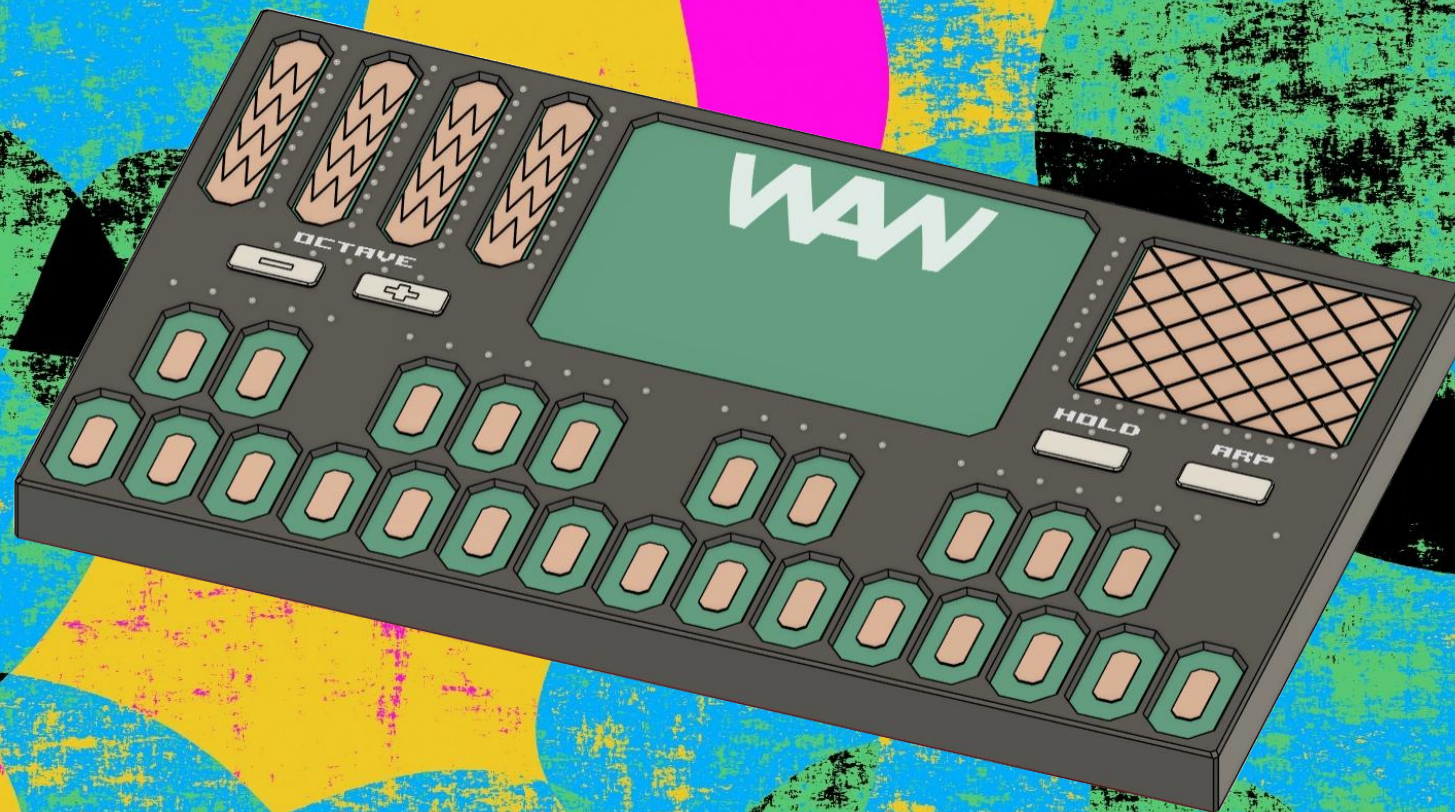
The southern tip of Vancouver Island (including Victoria and Langford), the San Juan, and the Gulf Islands are the traditional territories of the Lkwungen (Lekwungen) Peoples. Where Camosun College is located was an area rich with resources shared with the neighbouring relations of Schian'exw (Beecher Bay), Ts'ouke (Sooke), Elwa Klallam and Makah.

Lkwungen means "Place to smoke herring", Lkwung means "to smoke herring" and Lkwungen'athun refers to the language of the land. Lkwungen traditionally and still to-date unites the Esquimalt and Songhees Peoples as one family.

We acknowledge and thank the Lkwungen People, also known as the Songhees, and Esquimalt First Nations communities for their continued stewardship, care, and leadership on these lands. We also give thanks to the ancestors, supernatural ones, hereditary leaders and matriarchs, creatures big and small for looking after the rich resources and cultural teachings of this beautiful land.

- [IPSociety.ca](https://ipsociety.ca) > The Lands We Walk

WAW



MEET THE TEAM:



WES MARSEN



ANDREW GOERTZEN



WALKER BRADLEY

WHAT IS MIDI?



11011111
10101100

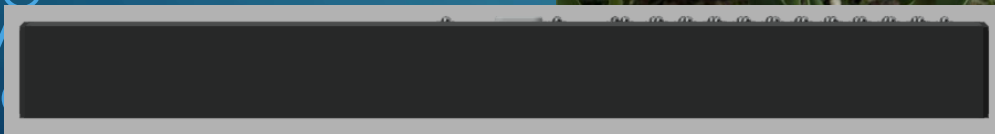
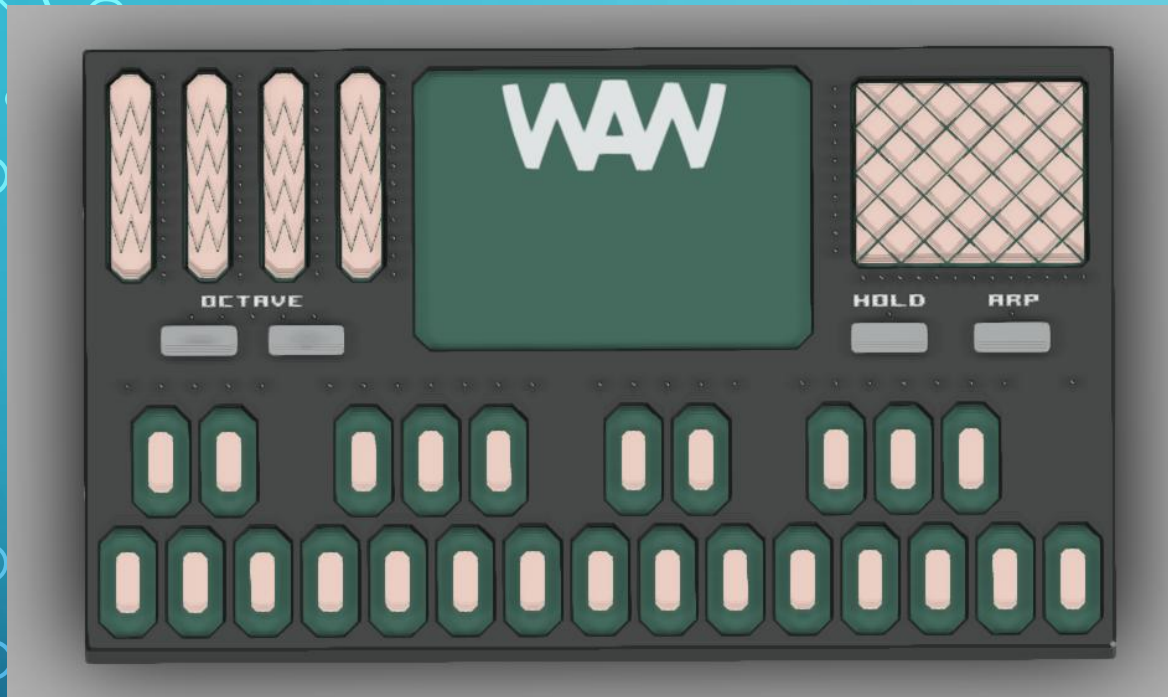
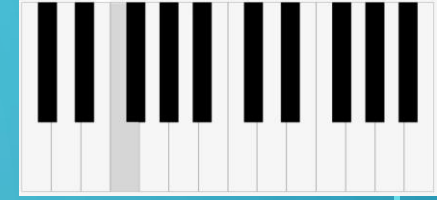


WHAT IS A MIDI CONTROLLER?

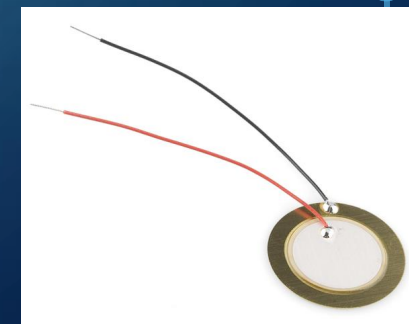
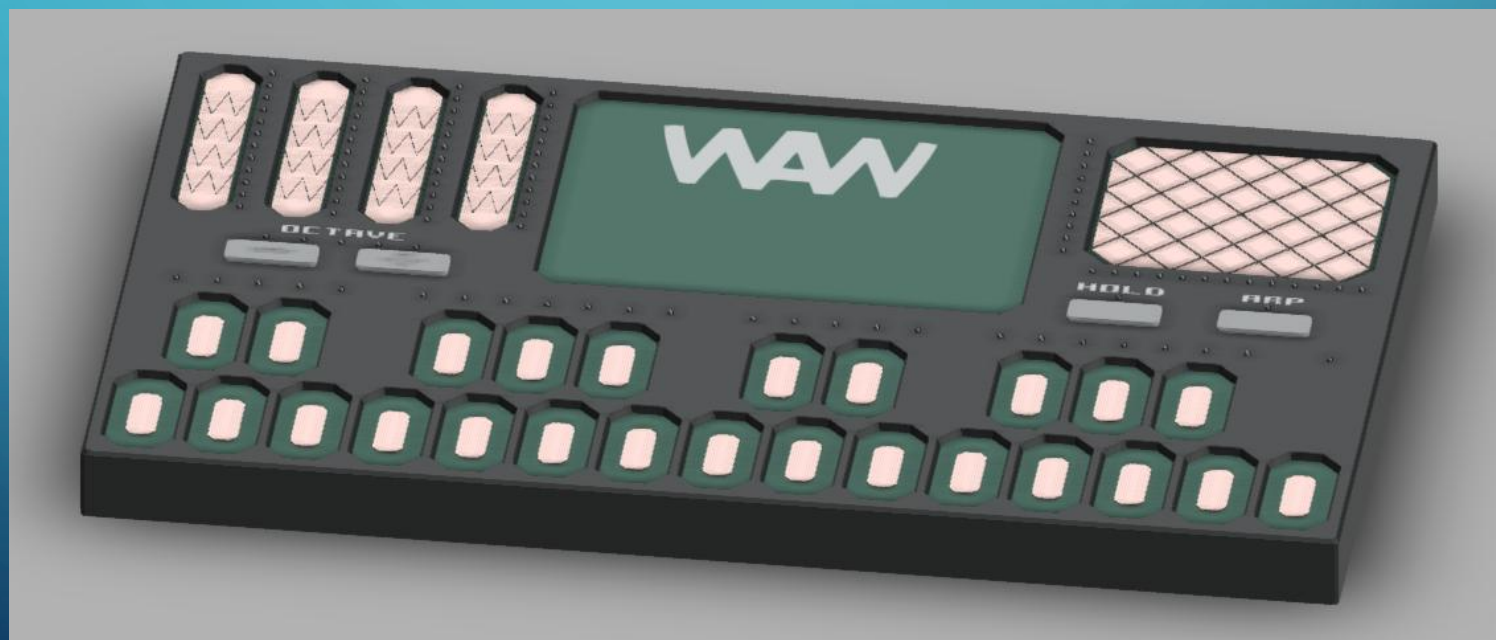
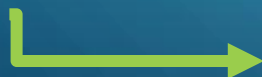
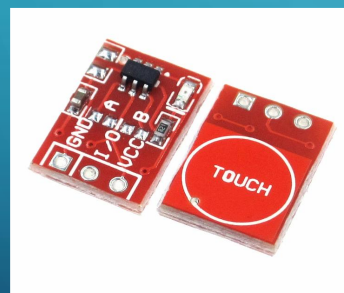
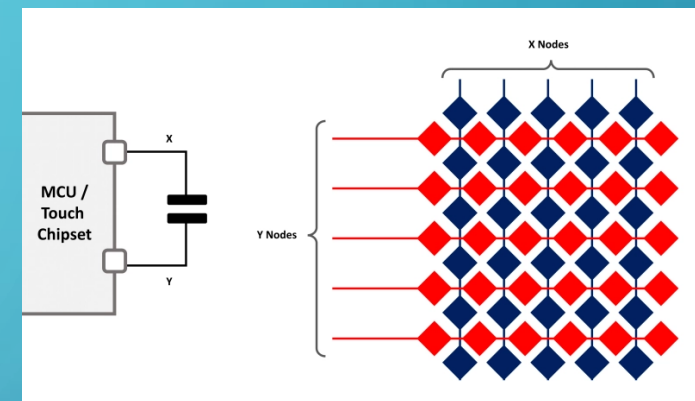
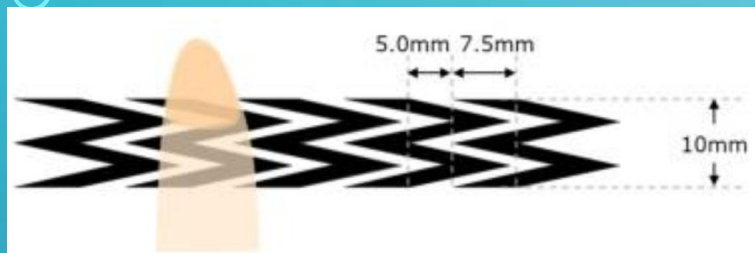


AKAI MPC KEY 37

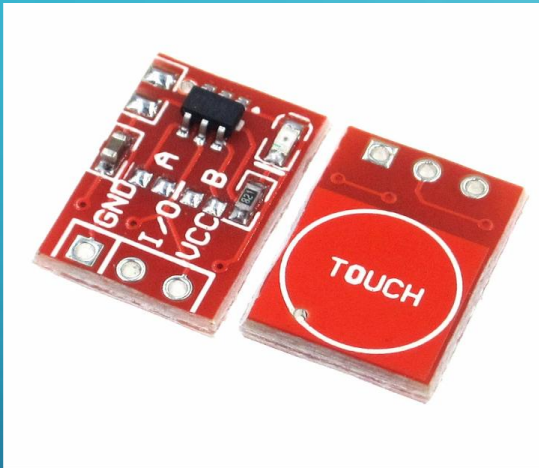
PURPOSE



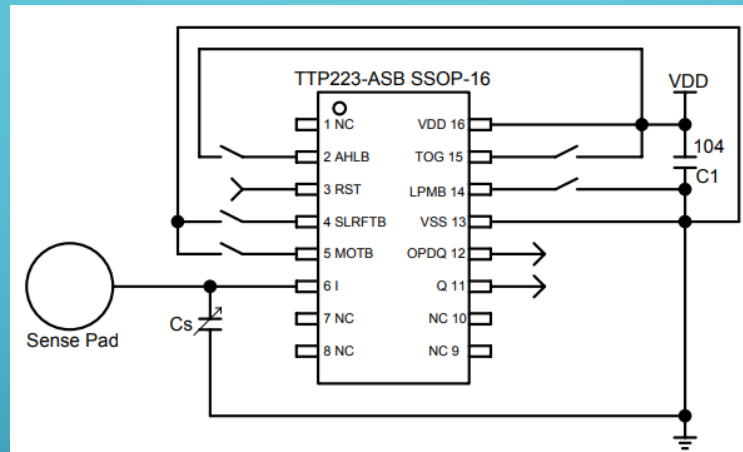
HARDWARE



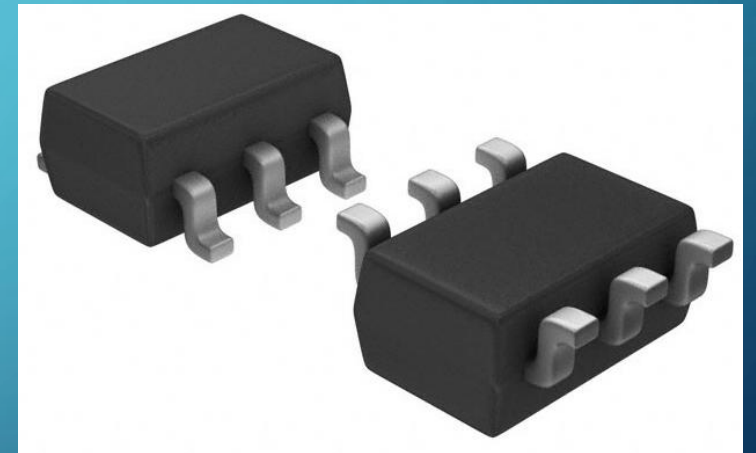
HARDWARE



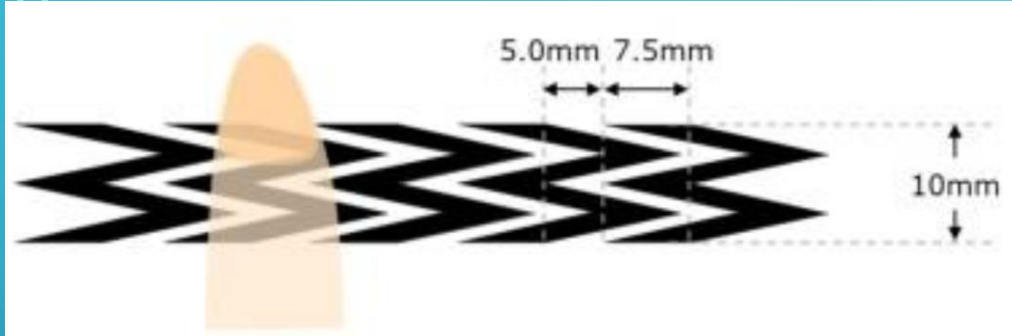
Resistor=? Capacitor=?



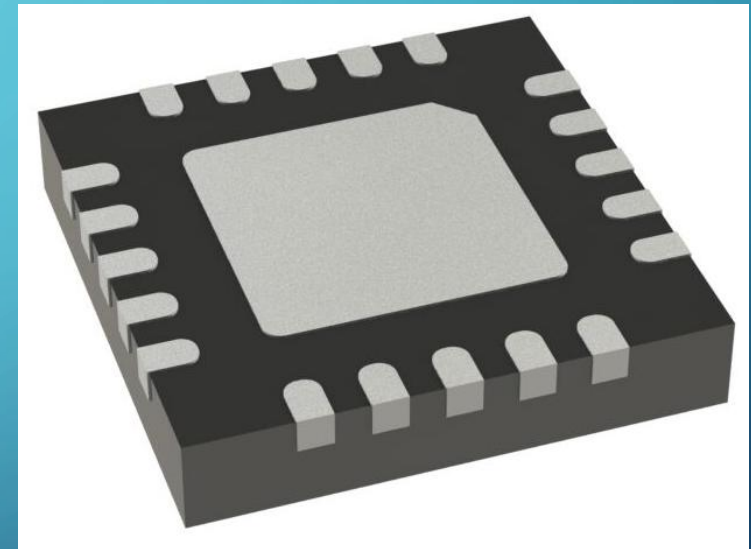
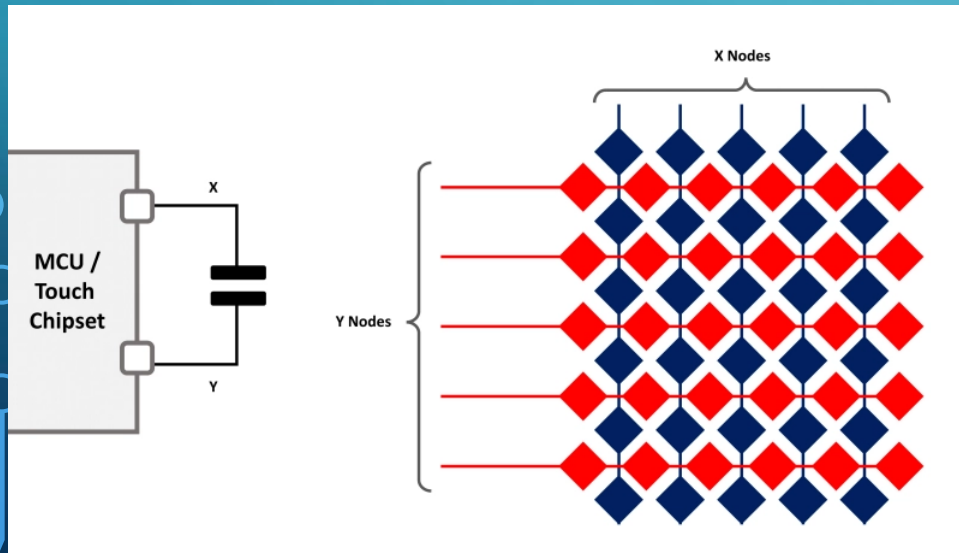
Capacitive Touch Sensor



HARDWARE

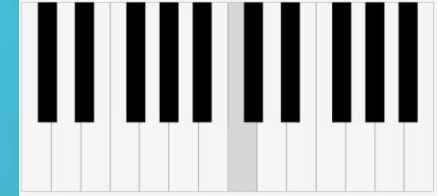


Capacitive touch sliders and XY Pad



IQS7211A101QNR

SOFTWARE



Start
Loop

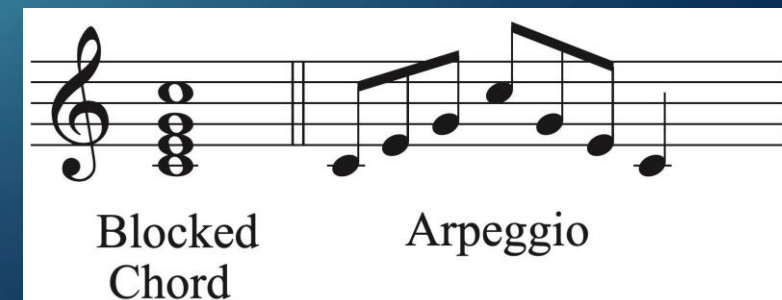
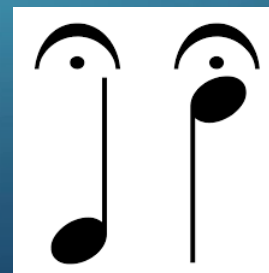
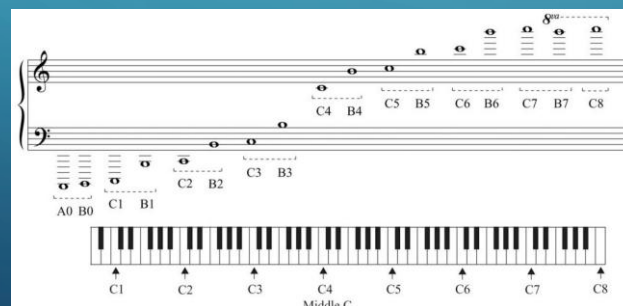
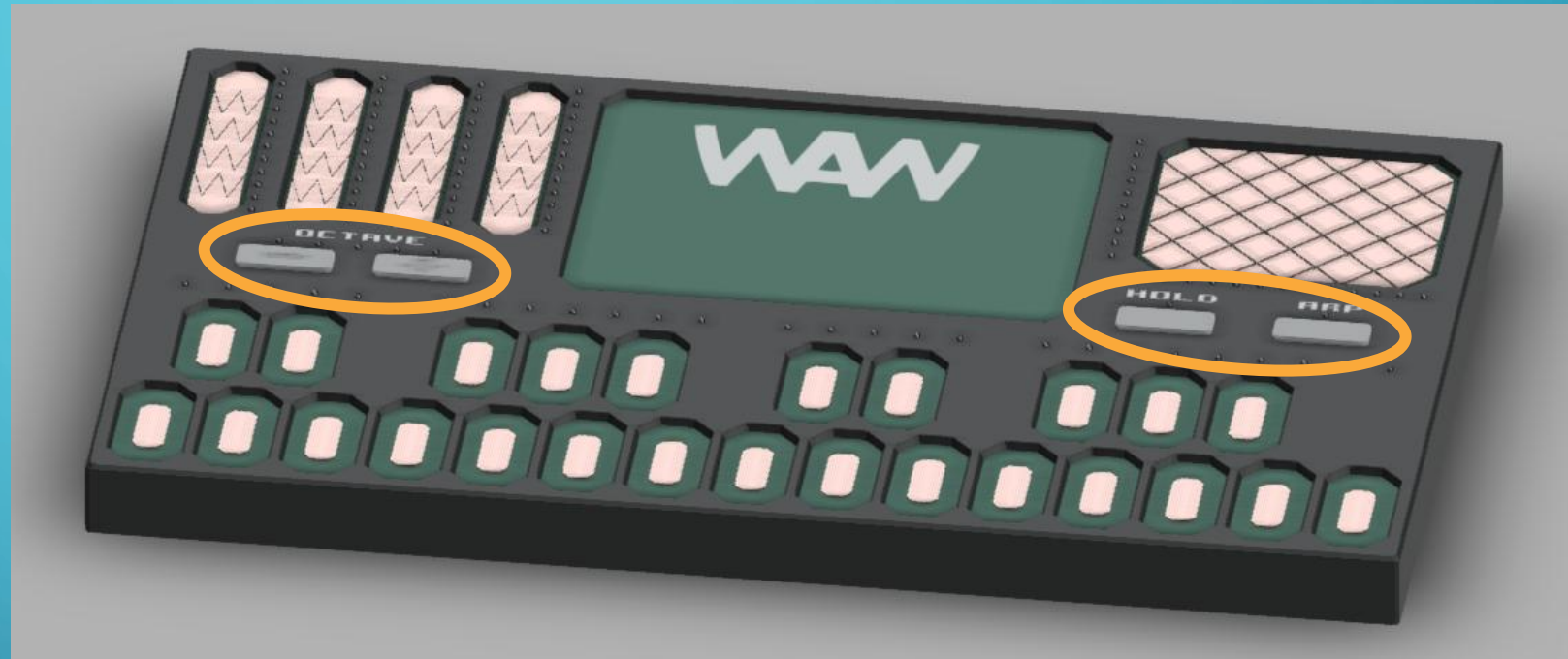
Check Feature
Buttons

Check Touch
Sensors

Send MIDI
Commands

Light LEDs

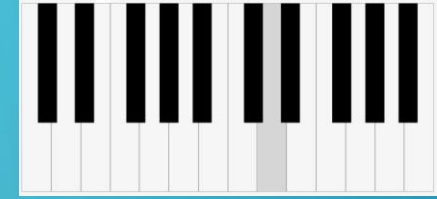
End Loop



Blocked
Chord

Arpeggio

SOFTWARE



Start
Loop

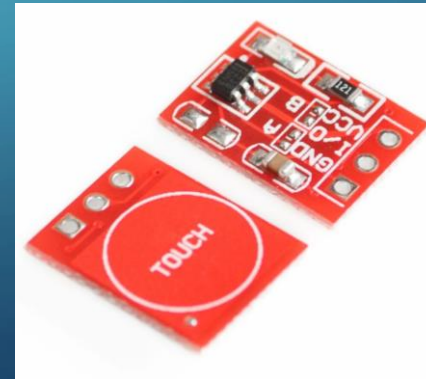
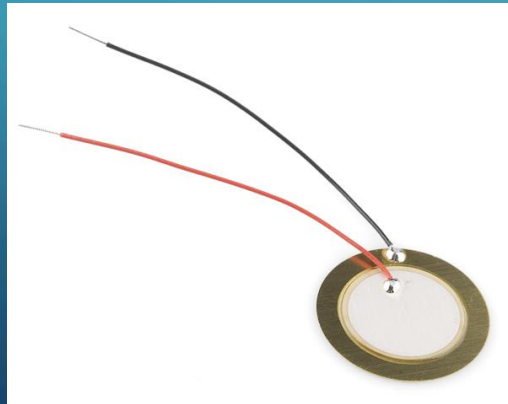
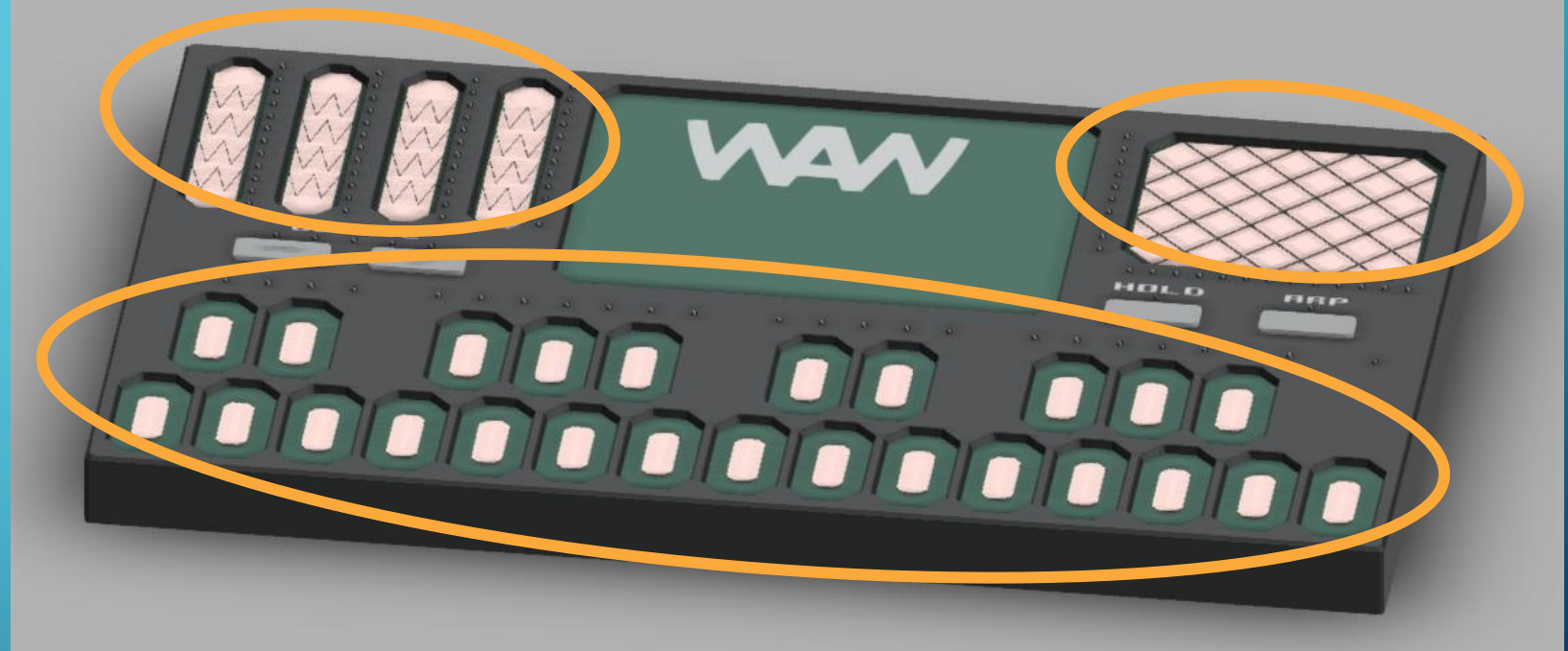
Check Feature
Buttons

Check Touch
Sensors

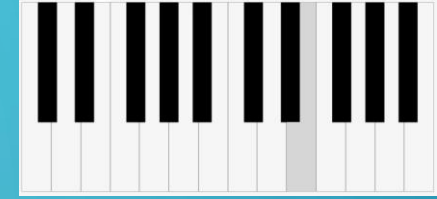
Send MIDI
Commands

Light LEDs

End Loop



SOFTWARE



```
usbMIDI.sendNoteOn(note, velocity, channel);  
usbMIDI.sendNoteOff(note, velocity, channel);
```

What note
did you hit?

How hard did
you hit it?

Who needs
to know?

```
usbMIDI.sendPitchBend(value, channel);
```



Start
Loop

Check Feature
Buttons

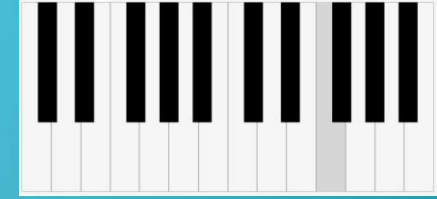
Check Touch
Sensors

Send MIDI
Commands

Light LEDs

End Loop

SOFTWARE



Start
Loop

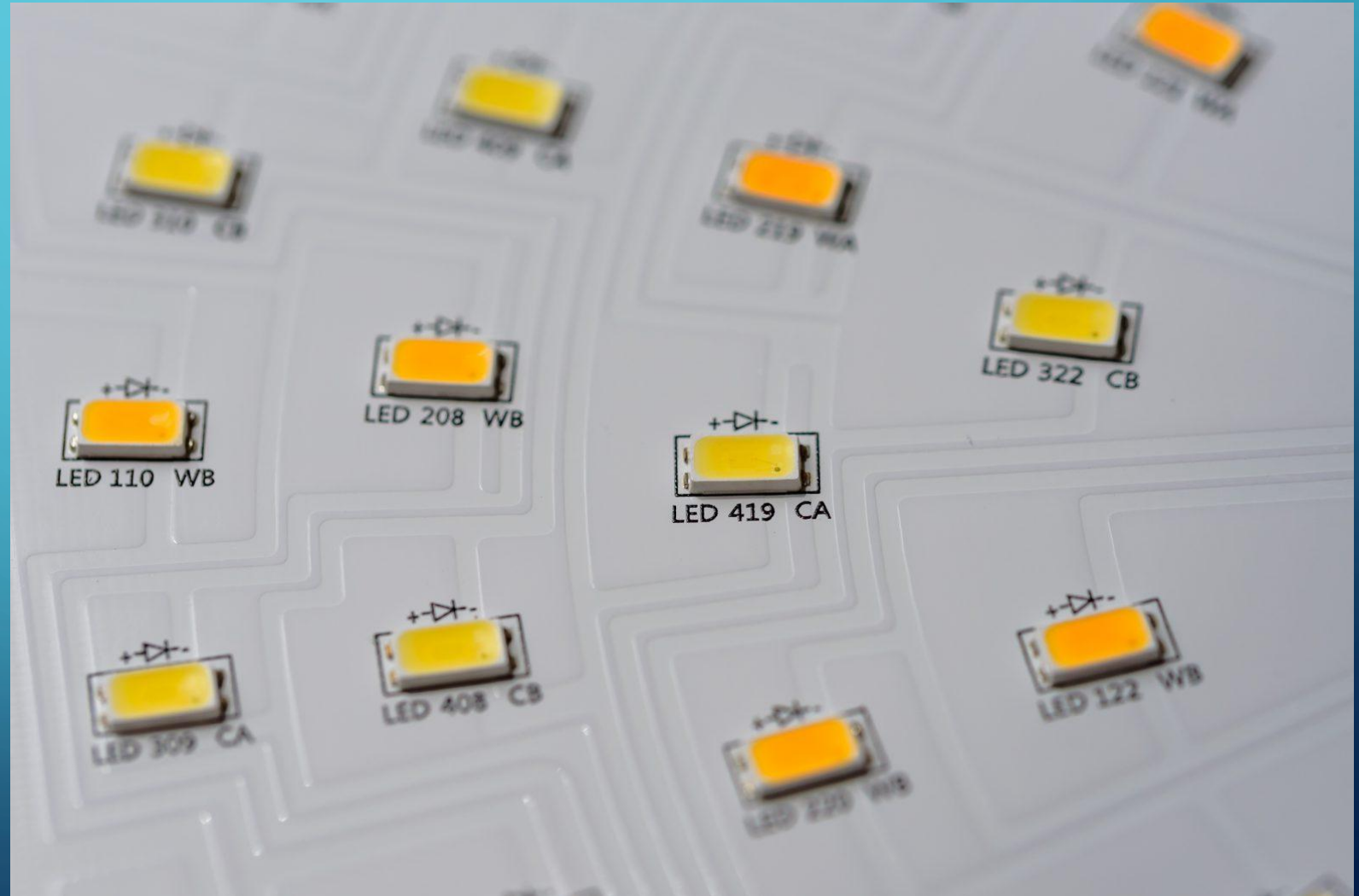
Check Feature
Buttons

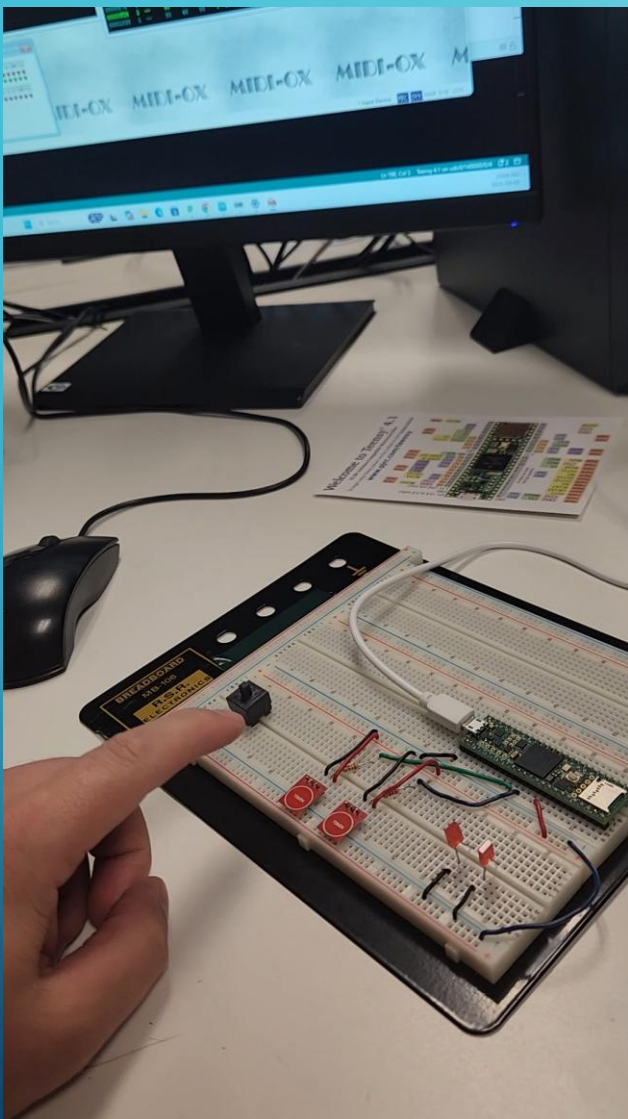
Check Touch
Sensors

Send MIDI
Commands

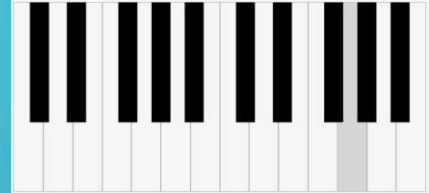
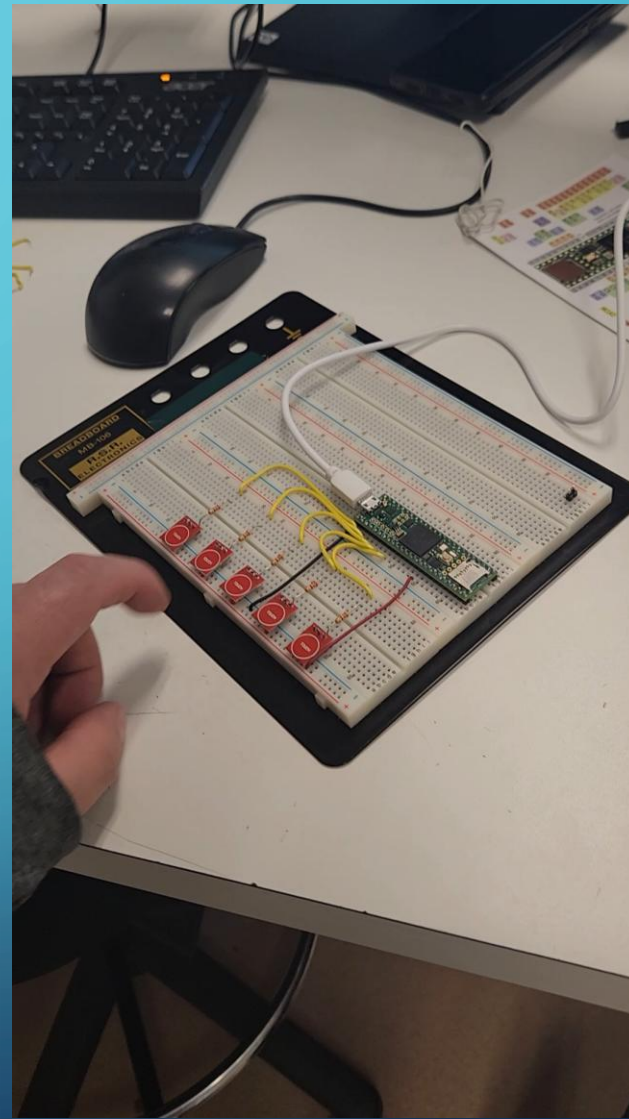
Light LEDs

End Loop





DEMO!



CONCLUSION



PICTURES

- [MPK Mini mk3 MIDI Controller | Akai Pro](#)
- https://www.cyberlink.com/blog/the-top-audio-editors/171/best-audio-editor?srsltid=AfmBOorAPlzviw1knhY1sh_6iYHF-NaGagRT6eoQmJPgzIKn4TXmcwnD
- [LPD8 MKII Laptop Pad Controller | Akai Pro](#)
- [MPC Key 37 The Keys To Inspiration | Akai Pro](#)
- [Red tulips on yellow tulips field photo – Free Flower Image on Unsplash](#)
- [AT42QT1010-TSHR Microchip Technology | Integrated Circuits \(ICs\) | DigiKey](#)
- [Capacitive Touch sliders and wheels support - Cap Touch Talk - Capacitive Touch \(Cap Touch\) - Renesas Engineering Community](#)
- [IQS7211A101QNR Azoteq \(Pty\) Ltd | Integrated Circuits \(ICs\) | DigiKey](#)
- <https://musictheorytutoring.weebly.com/octave-identification.html>
- <https://www.hoffmanacademy.com/blog/how-to-play-easy-piano-arpeggios>
- <https://method-behind-the-music.com/theory/notation/>
- <https://www.amazon.ca/TTP223-Button-Capacitor-Channel-Locking/dp/B088NVYMYB>
- <https://www.amazon.ca/SparkFun-1-5344-Capacitive-Touch-Slider/dp/B07T4TP7K6>
- <https://www.sparkfun.com/piezo-element.html>
- <https://everyguitarchord.com/guitar-bends-how-to-bend-guitar-strings/>
- <https://www.waveformlighting.com/pcb-designs/what-is-the-difference-between-led-package-types-such-as-3528-5050-and-2835>
- [Green chilli photo – Free Food Image on Unsplash](#)

