

## Software Versions

# Midi Access Version



Press, Change the Effects by tap the pattern and switch into the midi mode

**-Single Tap** – Change Effect 1 / 2

**-Double Tap** – Change 3

**-Long Hold Tap – Momentary  
Actual Effect**

## Shutter Gate Version



Press changes Effect 1,  
than change Effect 2

**Double Tap** – Change Effect 1 / 2

### - Long Hold Tap – Momentary/Shutter

### **Shutter Speed – Momentary/Shutter**

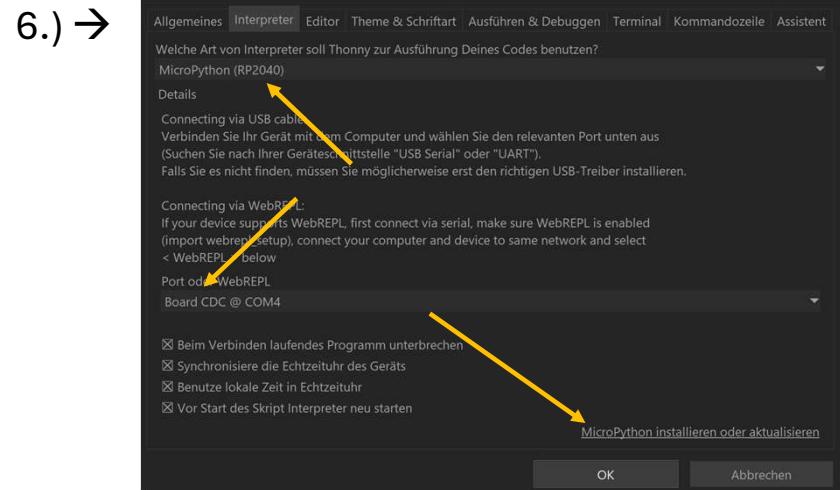
## How to Flash and Test -Raspberry Pi 2040 Zero

- 1.) Install Thonny → <https://thonny.org/>
- 2.) Download Code → Whammy4\_Shutter\_Gate.py

3.) Rename to → main.py

4.) Start Thonny, open Python File

5.) Tools → Options → Interpreter



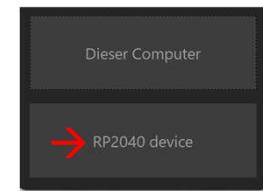
7.) Connect RP 2040 with PC

8.) Restart Thonny

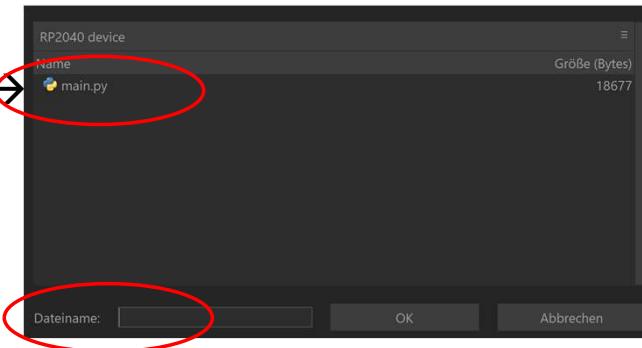
9.) Test your Functions here

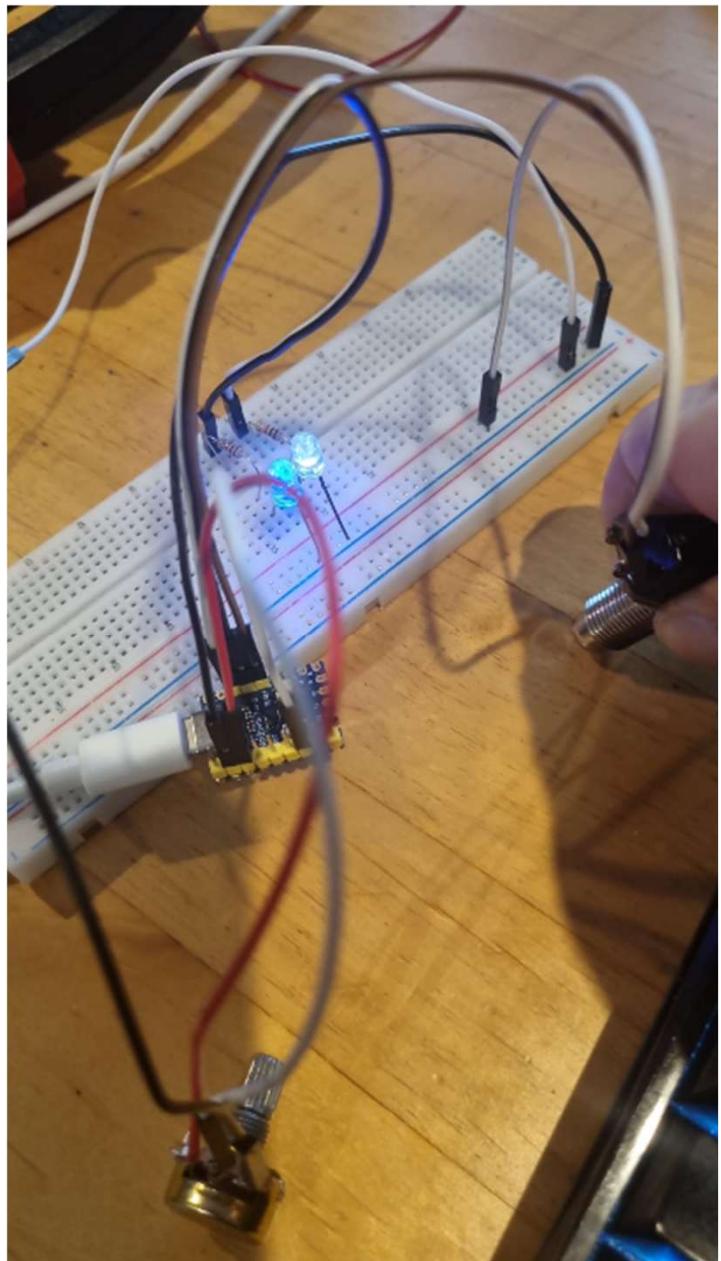


10.) Save as

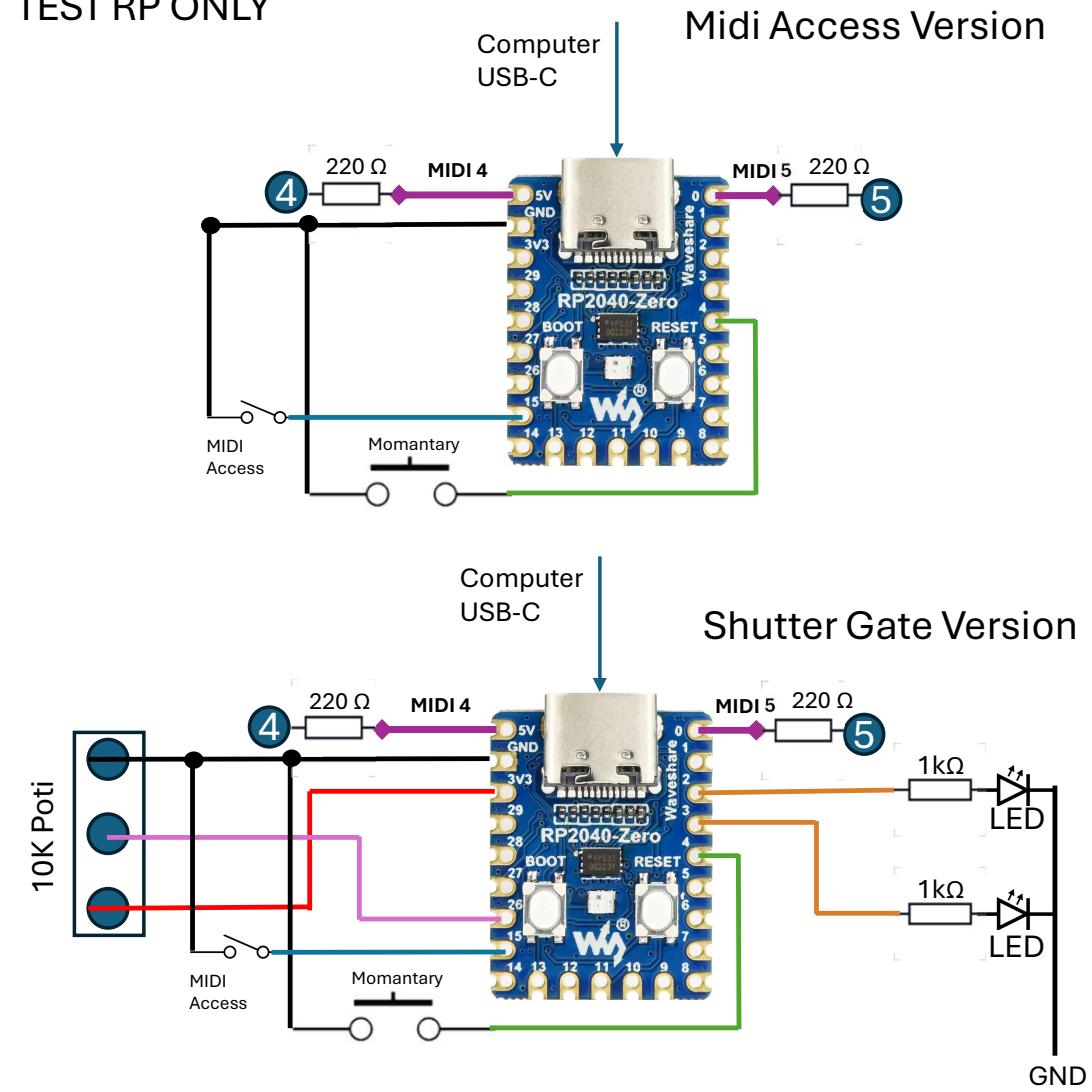


11.) Flash ↳





TEST RP ONLY



```

5 from machine import Pin, ADC
6 import time
7
8 # =====
9 # DEBUG
10 # =====
11 DEBUG = False # <-- For Tests, set True
12 DEBUG_A_EVENTS = False # <-- For Tests, set True
13 DEBUG_A_SCOPE = True # <-- For Tests, set True
14 SCOPE_EVERY_MS = 5
15 SCOPE_WIDTH = 80
16
17 # =====
18 # DEVELOPMENT BYPASS
19 # =====
20 DEV_BYPASS_MOMENTARY = False # <-- For Tests, set True
21
22 # =====
23 # PC SOUND (Serial Frequency Output)
24 # =====
25 FREQ_SEND_EVERY_MS = 50
26
27 # =====
28 # BYPASS / GATE LOGIC
29 # =====
30 BYPASS_B_INVERT = True
31 BBM_DELAY_US = 20
32
33 def dbg(msg):
34     if DEBUG:

```

