

 : Put Rust in your keyboard



About me

I am Haobo

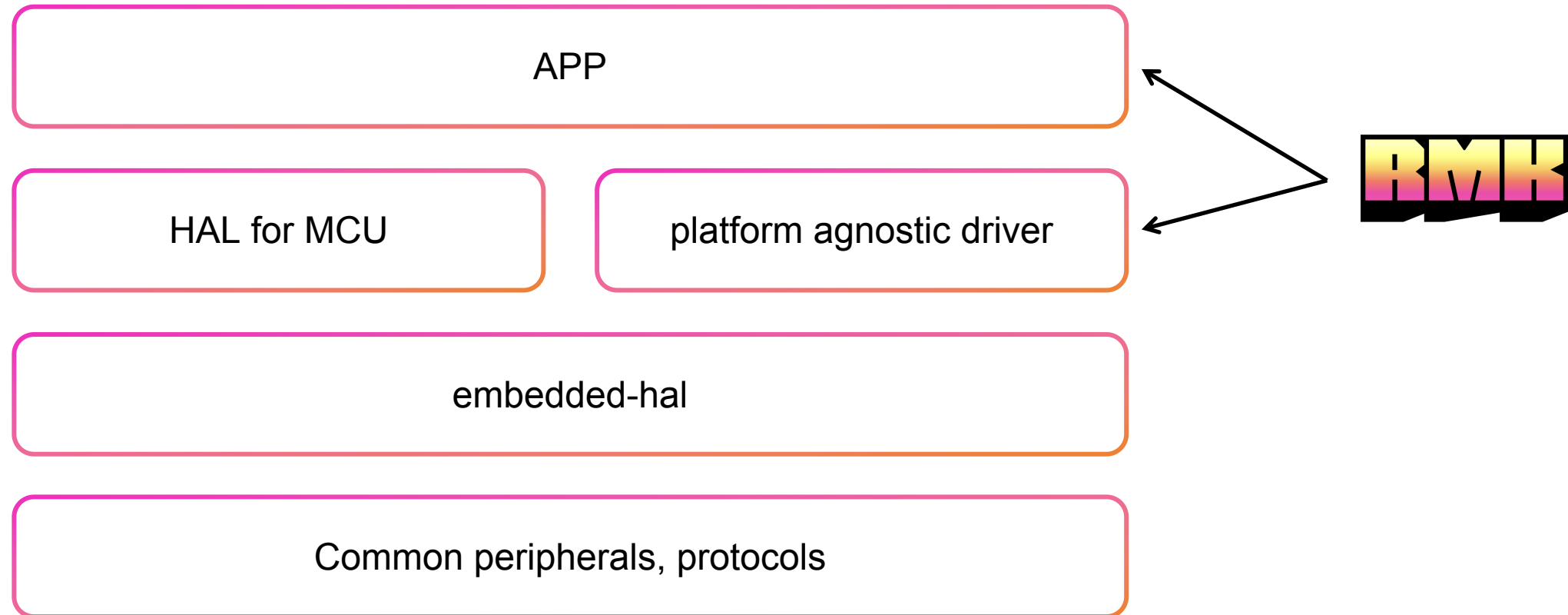
- LLM researcher
- Rust embedded enthusiast
- Keyboard collector & creator



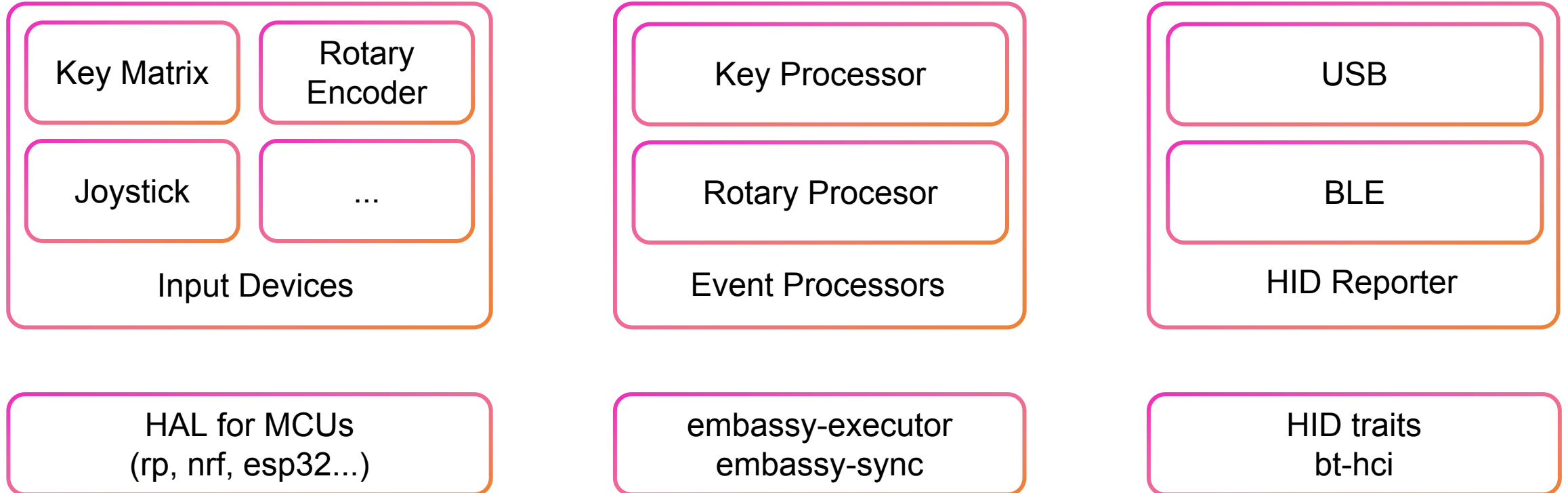
Rust in keyboards?



Embedded Rust



RMK Core



Event-driven, async based, low-power ready



RMK App

project
template + rmkit +

```
1 [keyboard]
2 name = "RMK Keyboard"
3 product_name = "RMK Keyboard"
4 manufacturer = "haobo"
5 chip = "nrf52840"
6
7 [layout]
8 rows = 4
9 cols = 3
10 layers = 2
11 keymap = [
12     [
13         ["Kp7", "Kp8", "Kp9"],
14         ["Kp4", "Kp5", "Kp6"],
15         ["Kp1", "Kp2", "Kp3"],
16         ["Kp0", "_", "KpDot"]
17     ],
18 ]
19
20 [ble]
21 enabled = true
22
```

=

RMK App



Demo time



Features

- Easy configuration via toml
- Great microcontroller support: ESP32, STM32, RP2040, nRF52, etc
- VIAL support: on-the-fly keymap changes
- Low-power ready
- Wireless ready



Future

- More microcontrollers support: cyw(rp2040w), ch32, etc
- Lighting, RGB
- Display support
- BLE OTA
- ...



Thank you

- Project link: <https://github.com/HaoboGu/rmk>
- Project templates: <https://github.com/haobogu/rmk-template>
- Slices: https://github.com/HaoboGu/rustweek_2025_slices

- About me: <https://github.com/HaoboGu/>
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THANK
YOU

