Design, implementation and evaluation of Raspberry Pi based parking monitoring system
Aim

- Parking Monitor System (Raspberry Pi 3b and 4)

- Compute images locally

Figure 1: Raspberry Pi
Retrieval from:
Challenge

• Heavy computation task in a small platform

Figure 2: Server
Retrieval from: https://zhuanlan.zhihu.com/p/55260207

• Unstable environment in experiment (temperature, sunlight, power...)

What have done yet…

• System prototype (Base on OpenCV)

• Performance testing (Still need improve)
Next work

• Test and optimize the prototype in the dark environment

• Blur the picture (to protect privacy)
Reference

- [https://docs.opencv.org/ref/2.4/df/d5e/classcv_1_1ocl_1_1MOG2.html](https://docs.opencv.org/ref/2.4/df/d5e/classcv_1_1ocl_1_1MOG2.html)

Thank you!