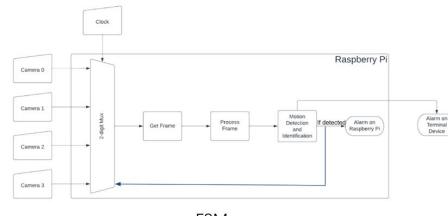
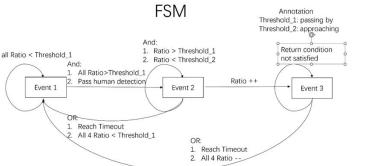
## A Low Cost System for Video Surveillance

Team 5

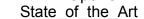
Shibo Wang Email: shibo.wang@case.edu

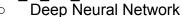
Anbang Chen Email: anbang.chen@case.edu



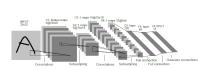


- Motivation
  - Automatically detect the moving objects in real time
    - Judge whether they are human
      - Alarm when necessary
- Hardware
  - o Raspberry Pi 3b
  - Camera & Extender
- E
  - EnvironmentPython 3.9OpenCV





Lightweight Network



Cost: \$189.37 each (assume 5000 sales)

Retail: \$249.99 each

## Conclusion and Status:

- Stability and robustness test on Raspberry Pi
- Fine-tuning parameters
- Reduce resource cost to improve performance (fps)
- Try Image/Video compression algorithm to save storage