

Pi Gate

Pied Piper Program

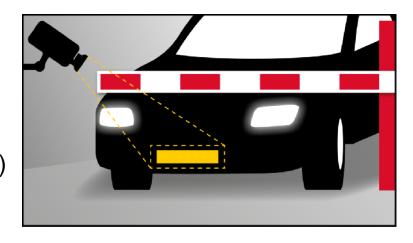
7th March 2018

DucThang, Nguyen @thangndu



Pi Gate System

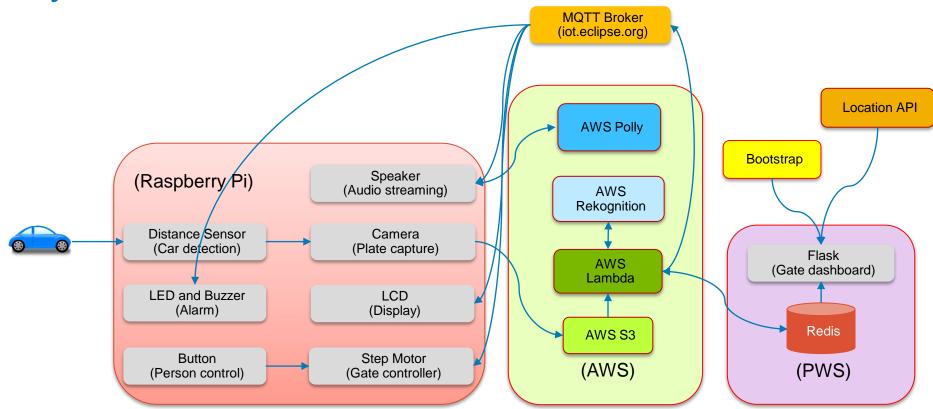
- Automated Gate System (Pi Gate)
 - Automatic detect plate number
 - Automatic display plate number
 - Automatic/manual gate control
 - Automatic alarm system (Light and Sound)
 - Access gate system dashboard anywhere
- Github repository
 - https://github.com/thangndu/pigate



Bill of Materials

ITEM	QUANTITY
Raspberry PI 3 Model B	1
Raspberry PI Camera V2	1
Distance Sensor	1
Step Motor (Micro Servo SG90)	1
LCD 1602 + I2C Interface Module	1
Speaker	1
LED Module	1
Buzzer Module	1
Button Module	1

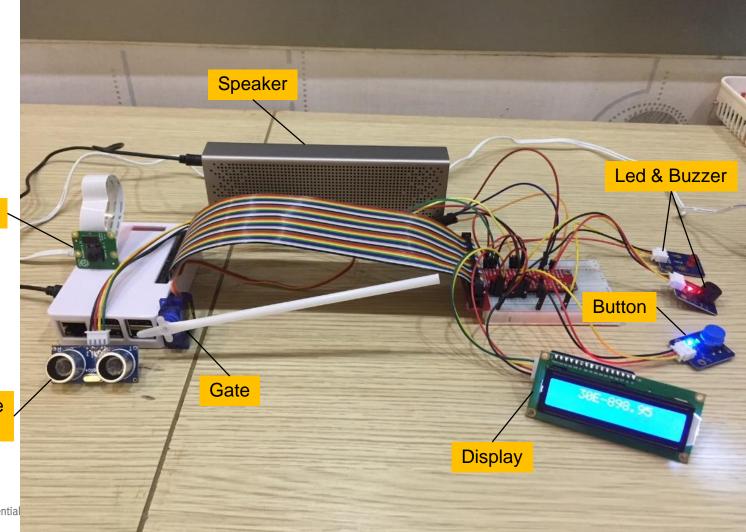
System Architecture



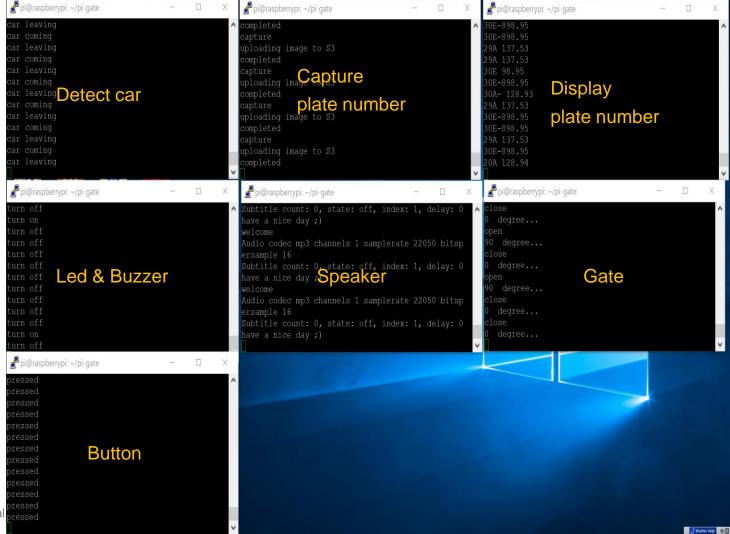
Pi Gate

Camera

Distance Sensor



Command Center



Dashboard (piper.cfapps.io)



Pi Gate Dashboard



Plate number 30E-898.95

Access time Monday, 05 March 2018 22:20:59

Access location Hanoi, Vietnam

Access status True



Demo











Registered plate number

Un-registered plate number

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