

# 오토믹 자동차

Android 앱을 이용한 주행

서강원  
김기영  
김채진  
옥진해  
전고은

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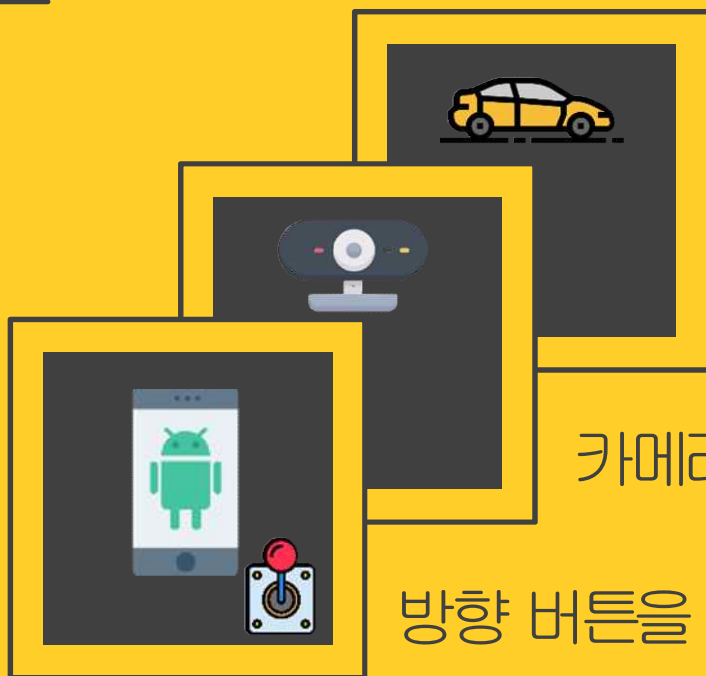
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~11/9 (1차) & ~11/23 (2차) 계획안

# 목표

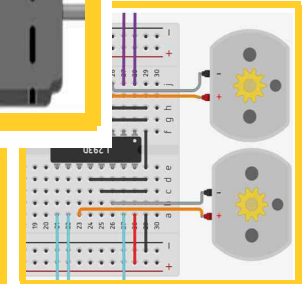
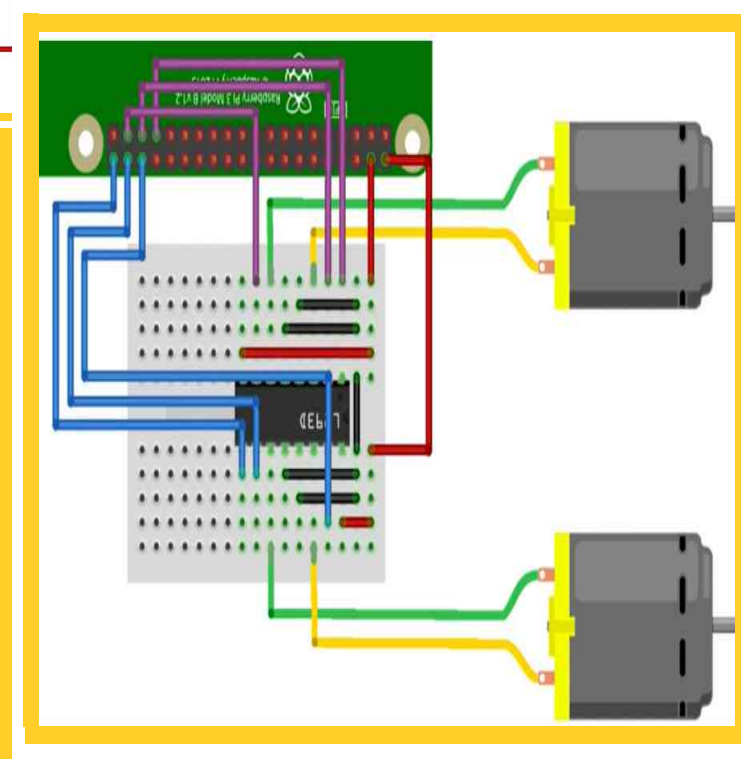
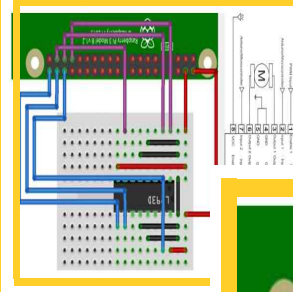
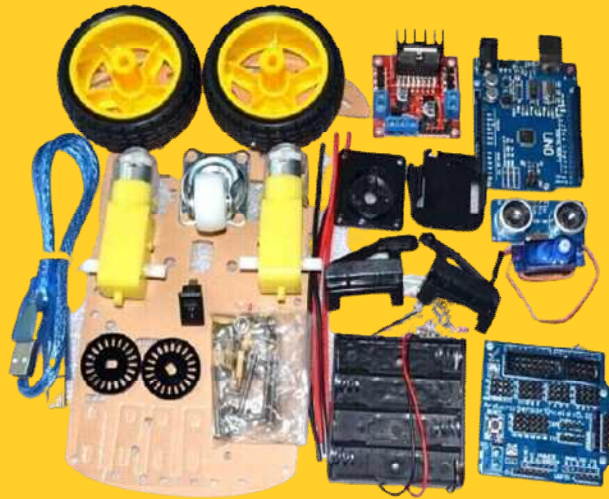


다양한 방식의 주행 구현  
(자율주행 모드 추가)

카메라 연결 및 앱 화면만으로 주행 구현

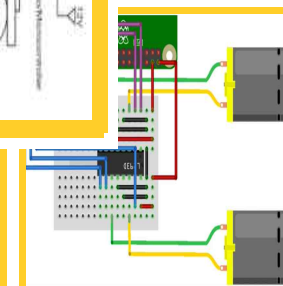
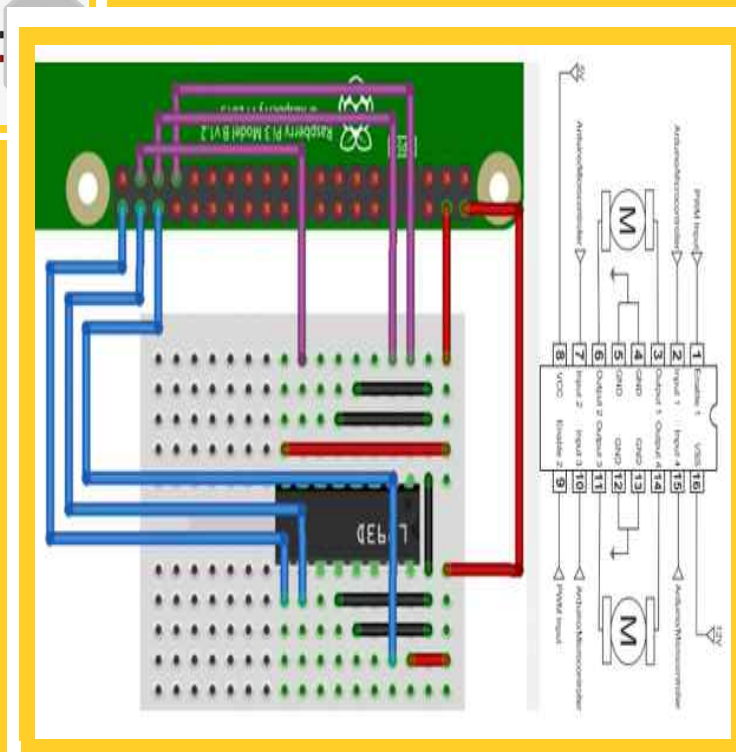
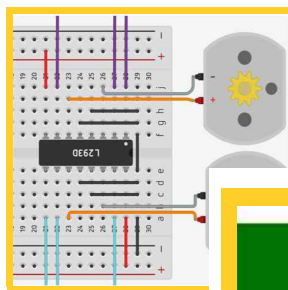
방향 버튼을 조이스틱 형태로 만들어 주행

# 회로 연결 과정



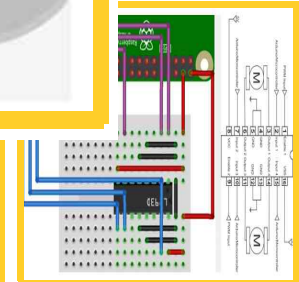
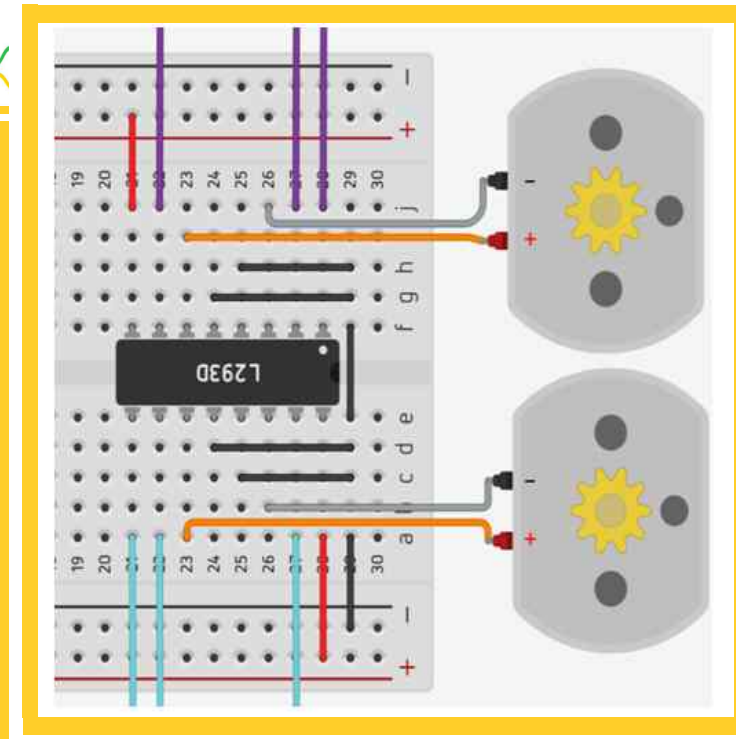
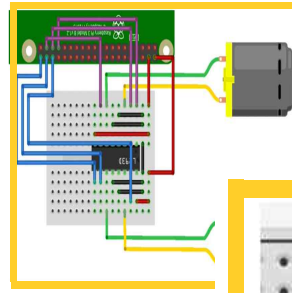
# 회로 연결 과정

Rpi	L293D	Direct ion
5V	8,16	
GND	4,5,12,13	
GPIO13	1	LEFT_PWM
GPIO19	2	LEFT_FORWARD
GPIO26	7	LEFT_BACKWARD
GPIO21	9	RIGHT_PWM
GPIO16	15	RIGHT_FORWARD
GPIO20	10	RIGHT_BACKWARD



# 회로 연결 과정

Rpi	L293D	Mot or
5V	6	5V(Orange)
GND	3	GND(Gray)
5V	11	5V(Orange)
GND	14	GND(Gray)



# Automatic Car Application

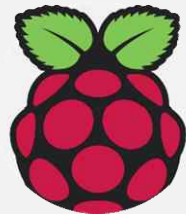


**AutomaticCar Application**

JoyStickClass.java

MainActivity.java

activity\_main.xml

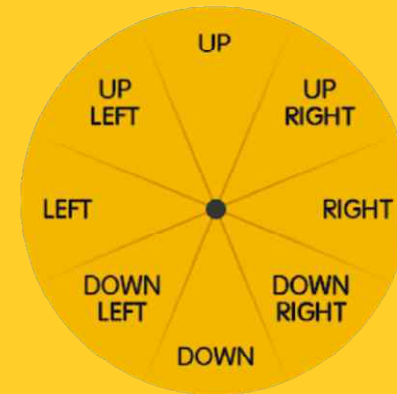
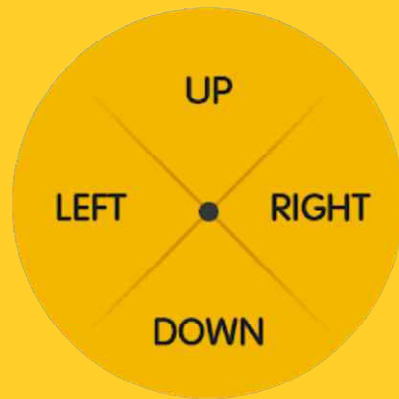


**Raspberry Pi**

CARServer\_UDP.py

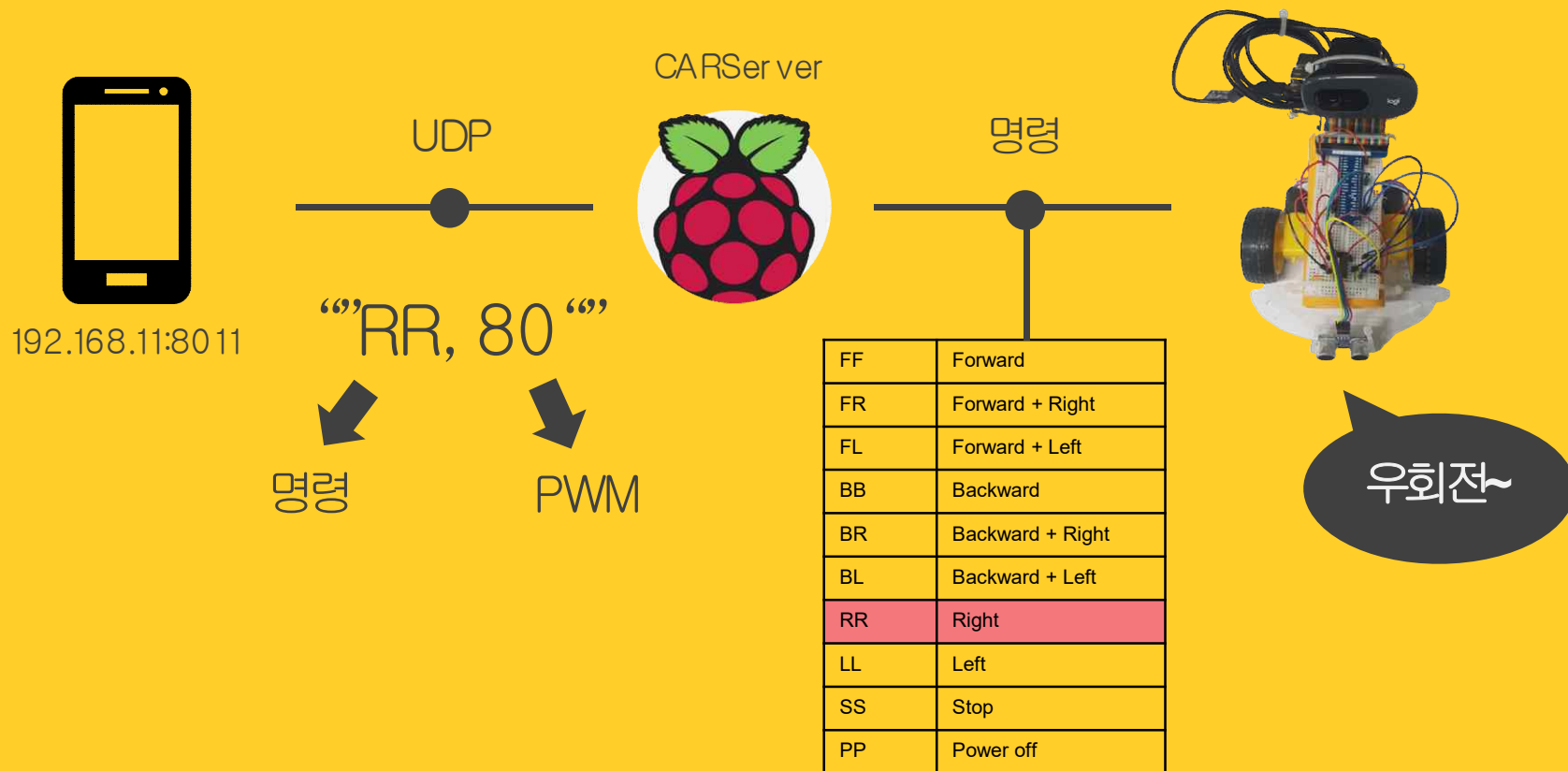
CARControl\_UDP.py

# Automatic Car Application

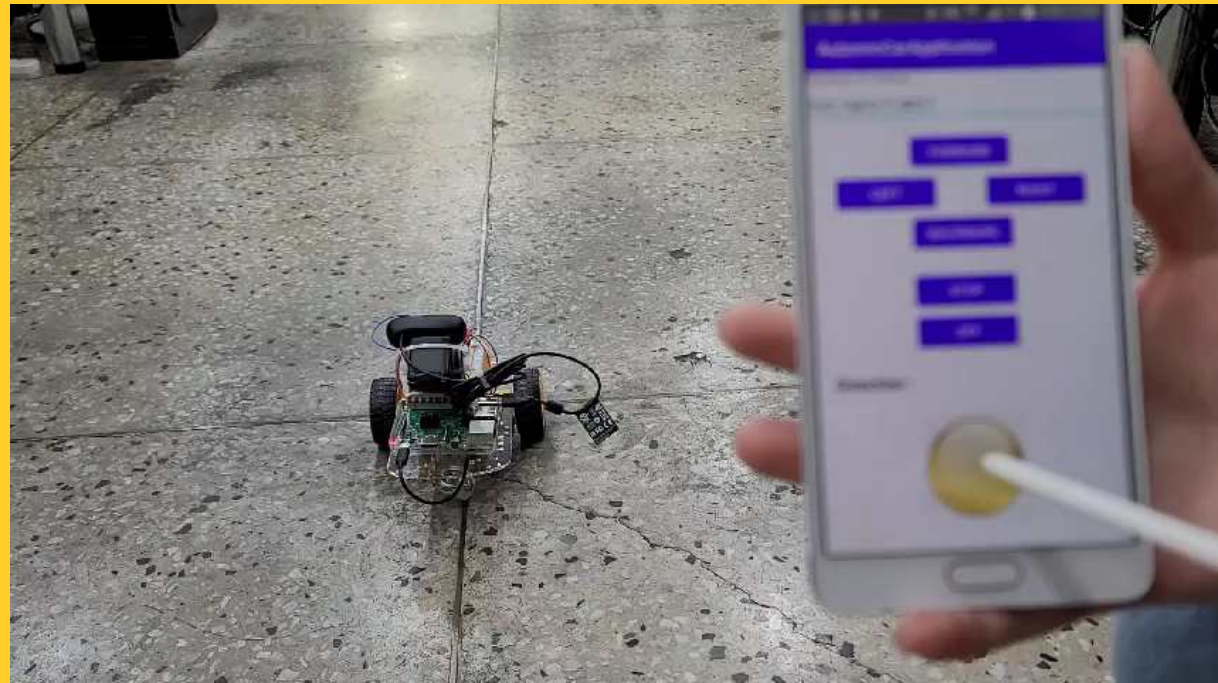
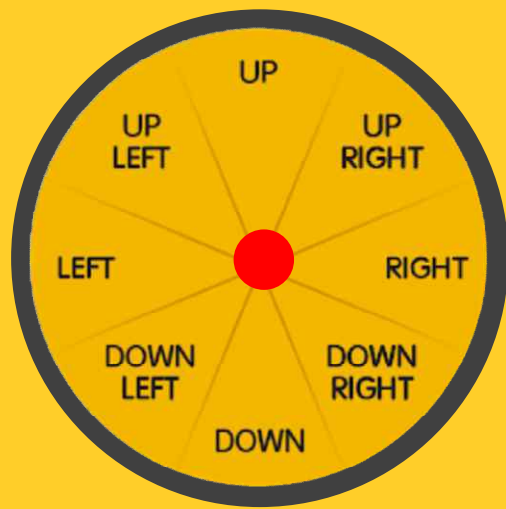




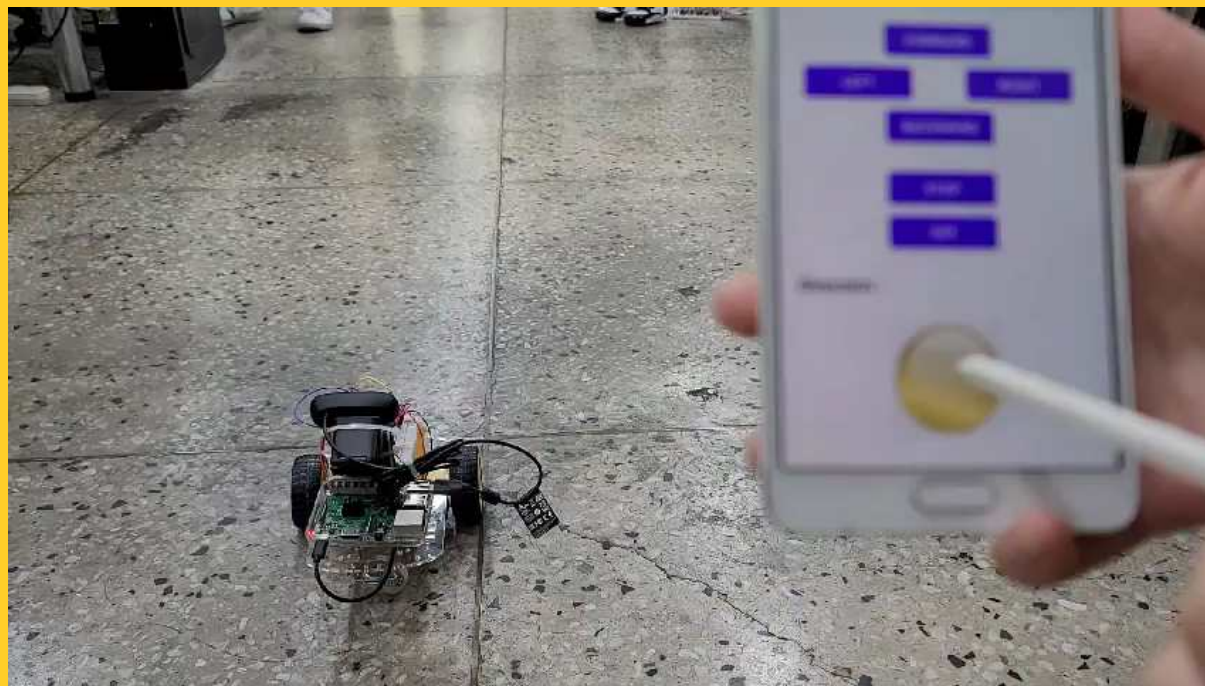
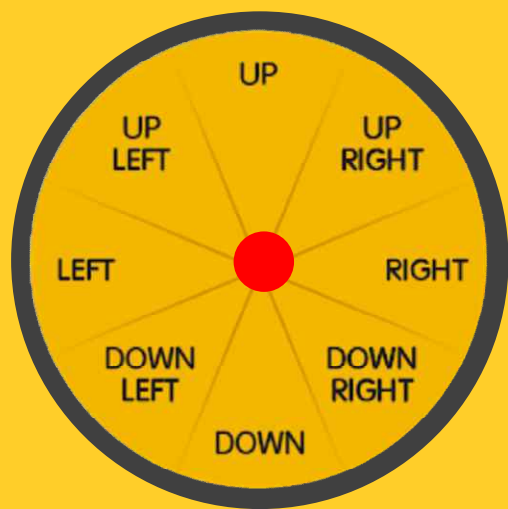
# Automatic Car Application



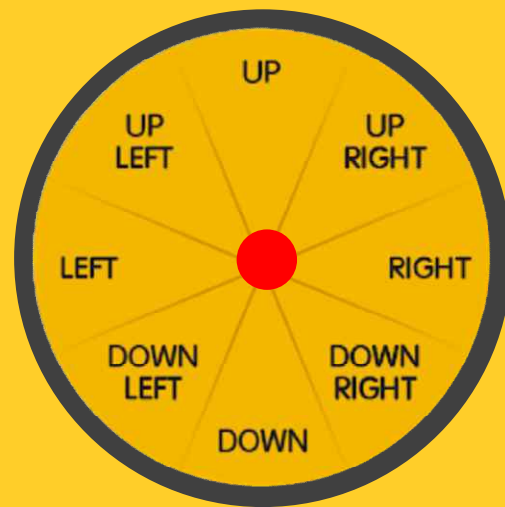
## 촬영 영상(UP)



## 촬영 영상(UP-RIGHT)

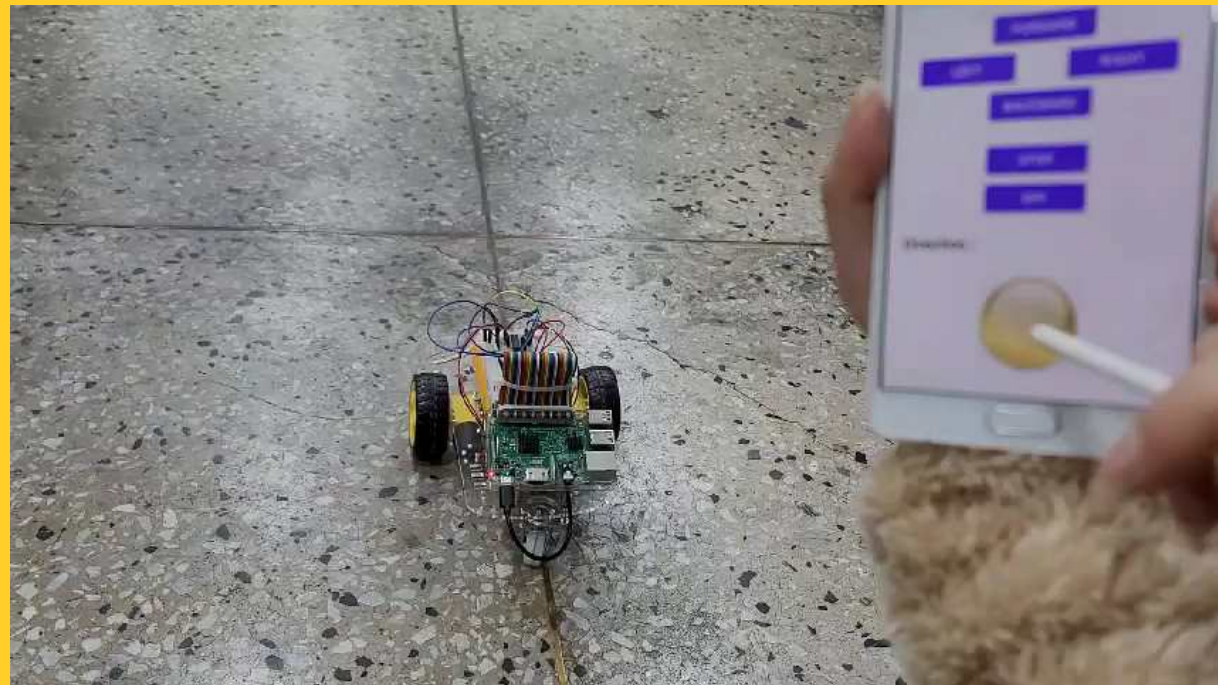
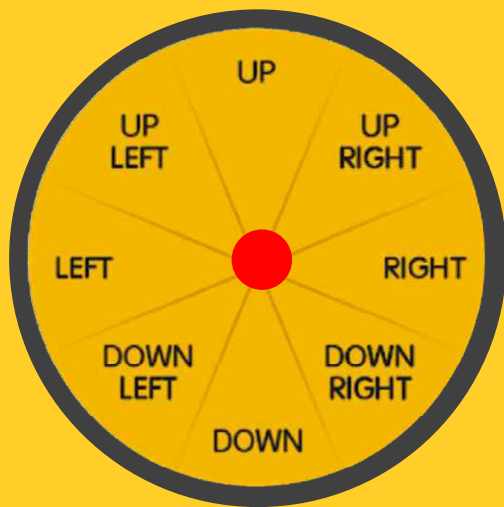


## 촬영 영상(RIGHT)

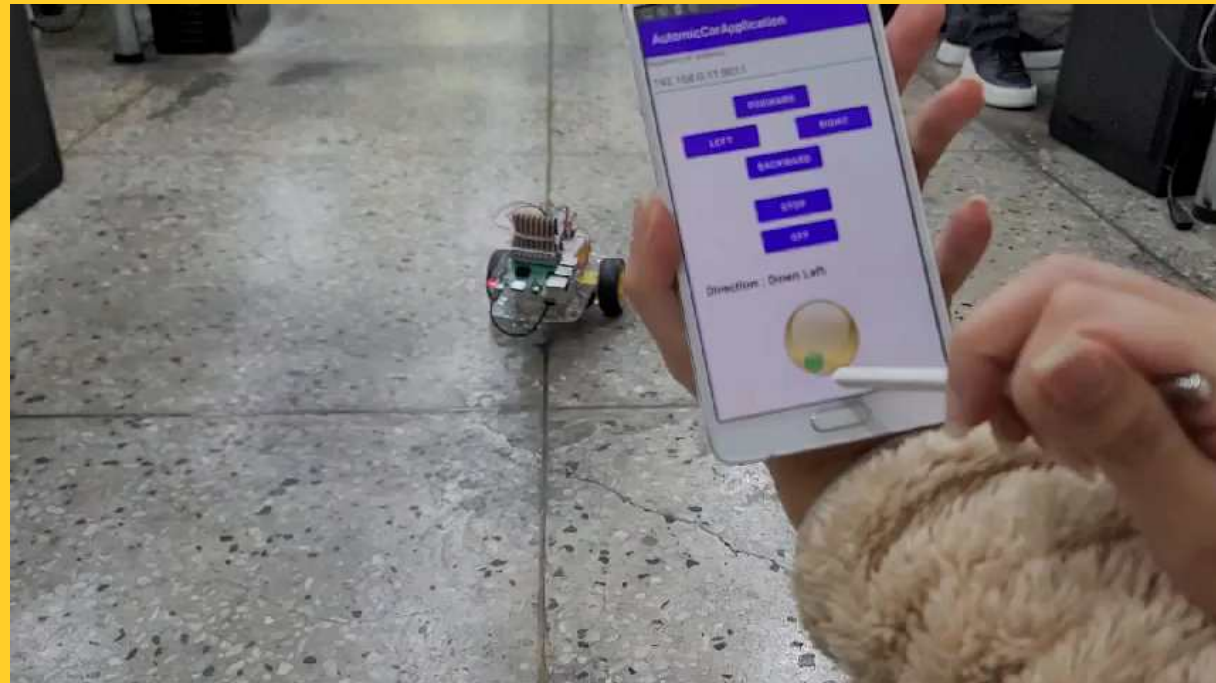
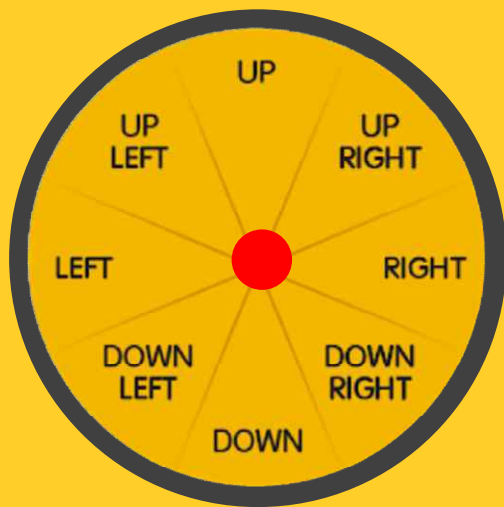




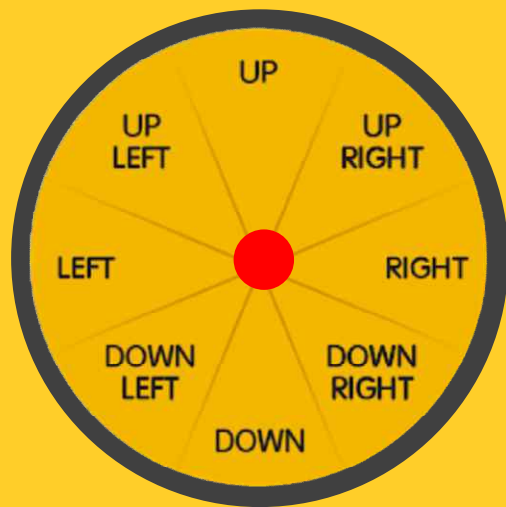
## 촬영 영상(DOWN-RIGHT)



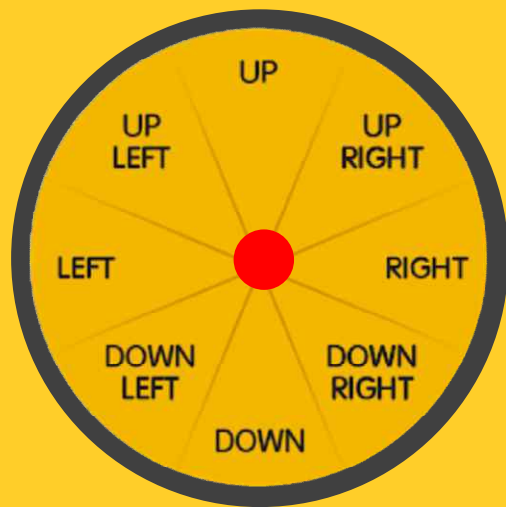
## 촬영 영상(DOWN)



## 촬영 영상(DOWN-LEFT)

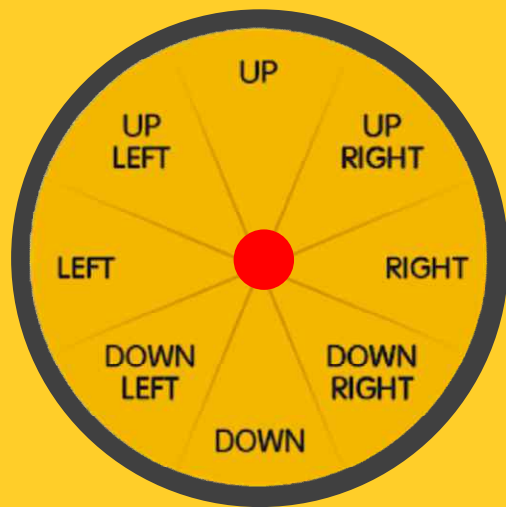


## 촬영 영상(LEFT)



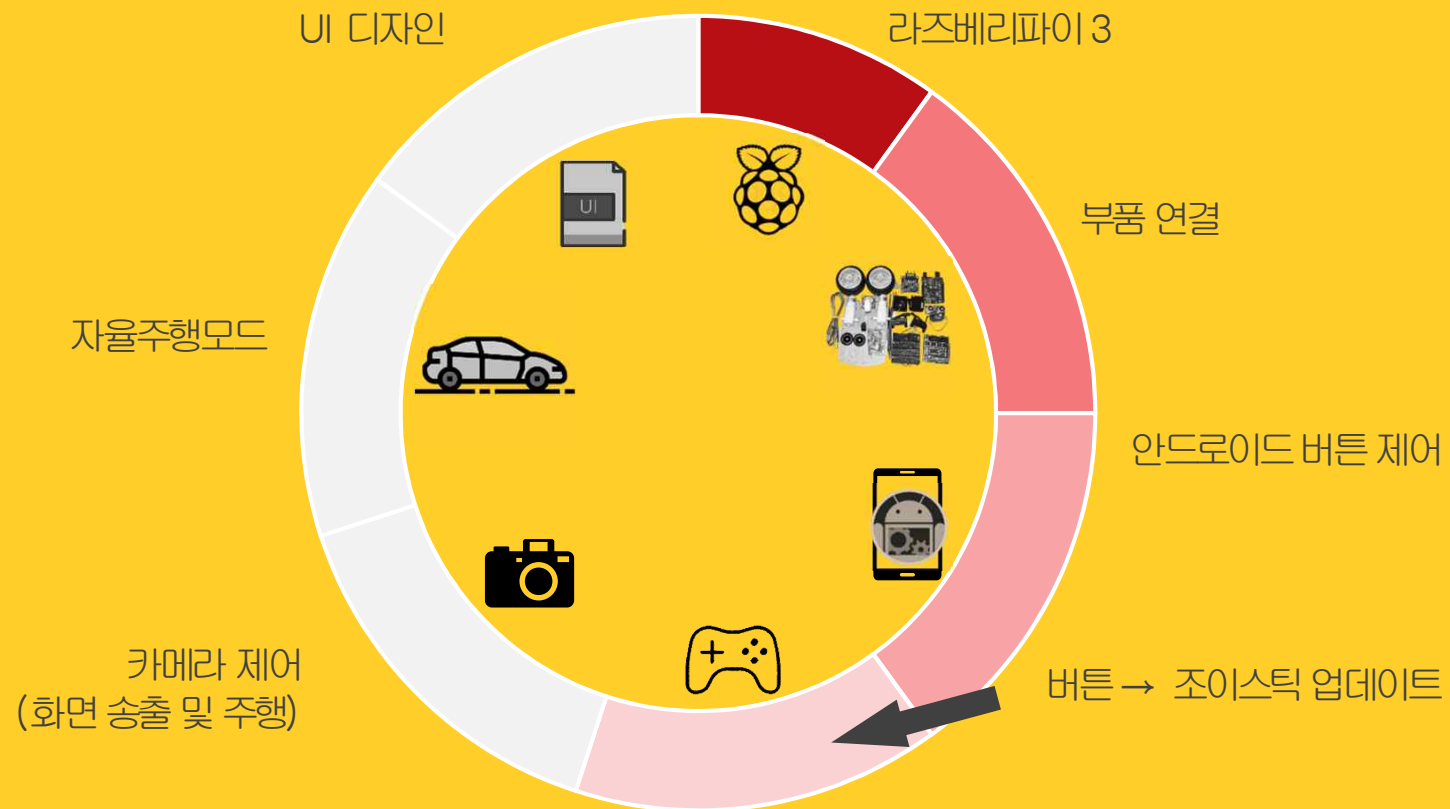


## 촬영 영상(UP-LEFT)



# 진행 중인 계획 및 앞으로의 계획

~11/9 (1차) & ~11/23 (2차) 계획안





**Thank you**