



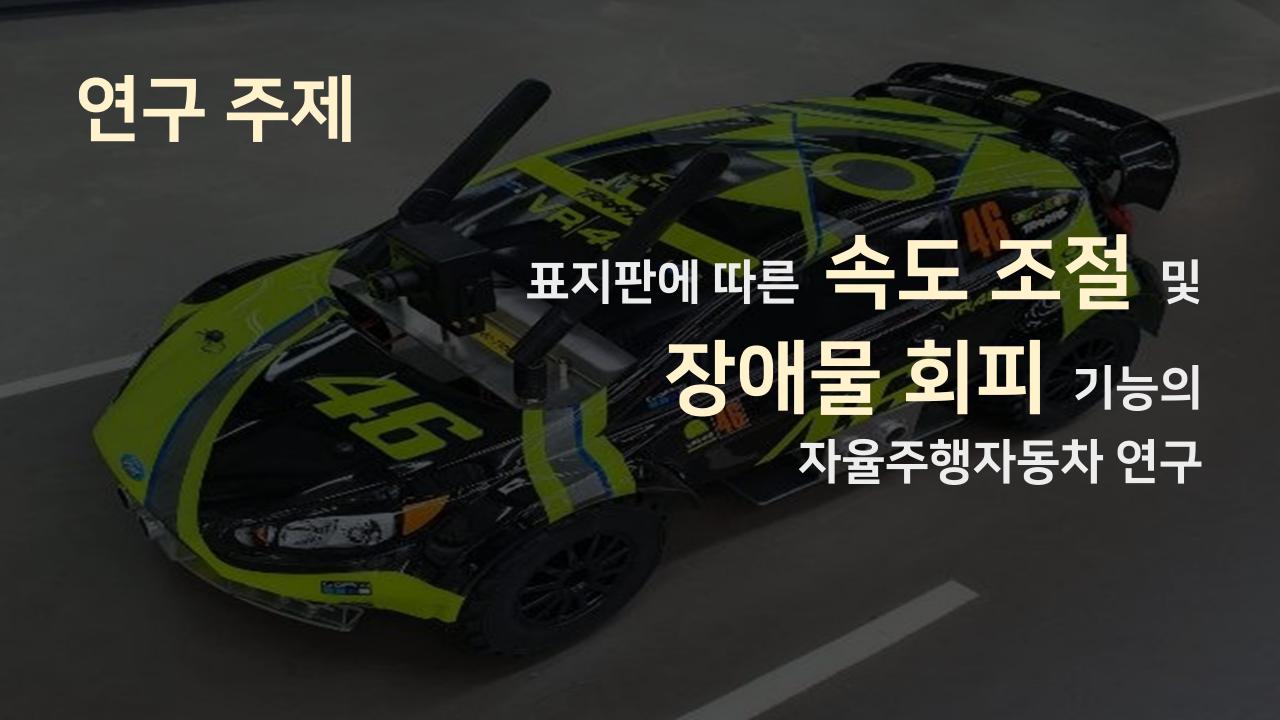
연구 주제

구현 방법

세부 코드

영상 시연

수행 후기





100

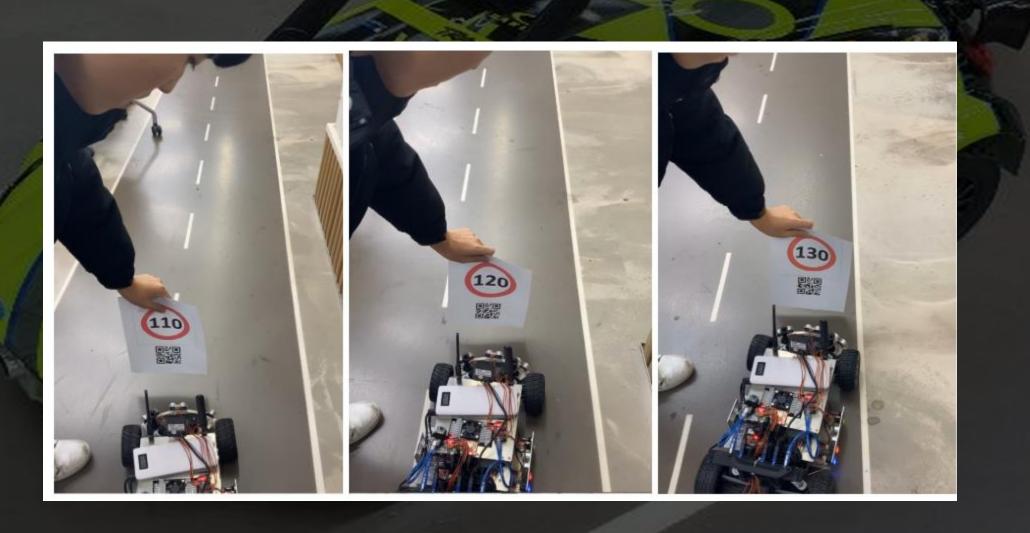
속도제한 표지판의 QR코드 인식

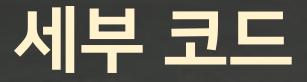
→ Xycar 속도 조절

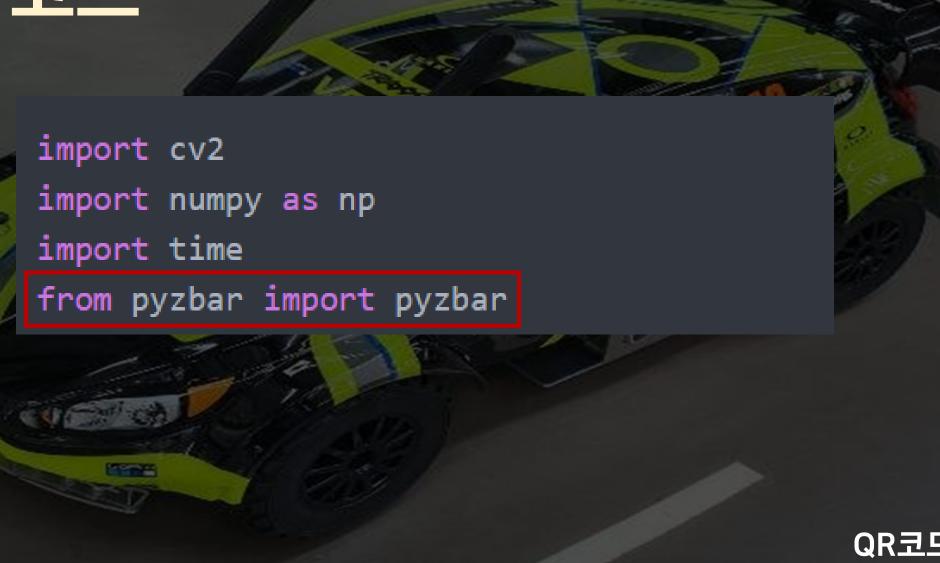




구현 방법







QR코드 인식

```
def conv_image(self, data):
    self.cam_img = self.bridge.imgmsg_to_cv2(data,'bgr8')
    barcodes = pyzbar.decode(self.cam_img)
    for barcode in barcodes:
        barcodeData = barcode.data.decode("utf-8")
        self.speed = int(barcodeData)
        print(barcodeData)
```



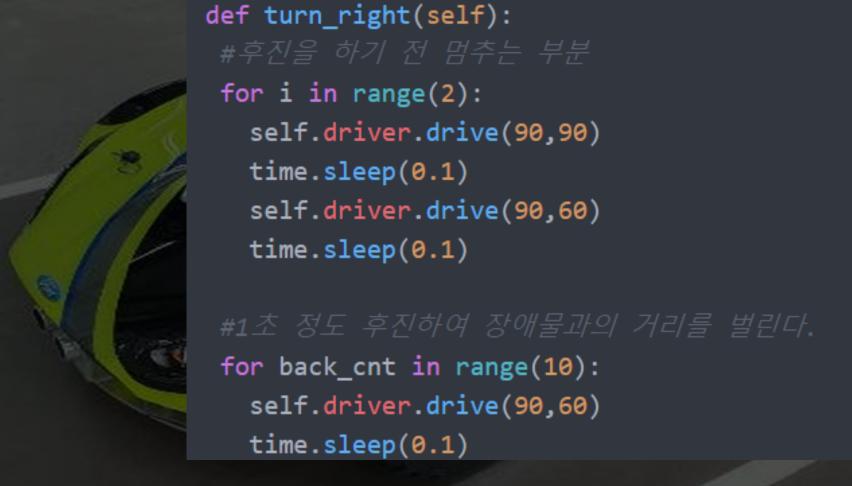












장애물 회피

```
self.driver.drive(170, self.line_detector.speed-5)
time.sleep(1)
 self.driver.drive(40, self.line_detector.speed-5)
time.sleep(4)
self.driver.drive(110, self.line_detector.speed-5)
time.sleep(1)
```

```
self.driver.drive(170, self.line_detector.speed-5)
time.sleep(1)
 self.driver.drive(40, self.line_detector.speed-5)
time.sleep(4)
self.driver.drive(110, self.line_detector.speed-5)
time.sleep(1)
```

