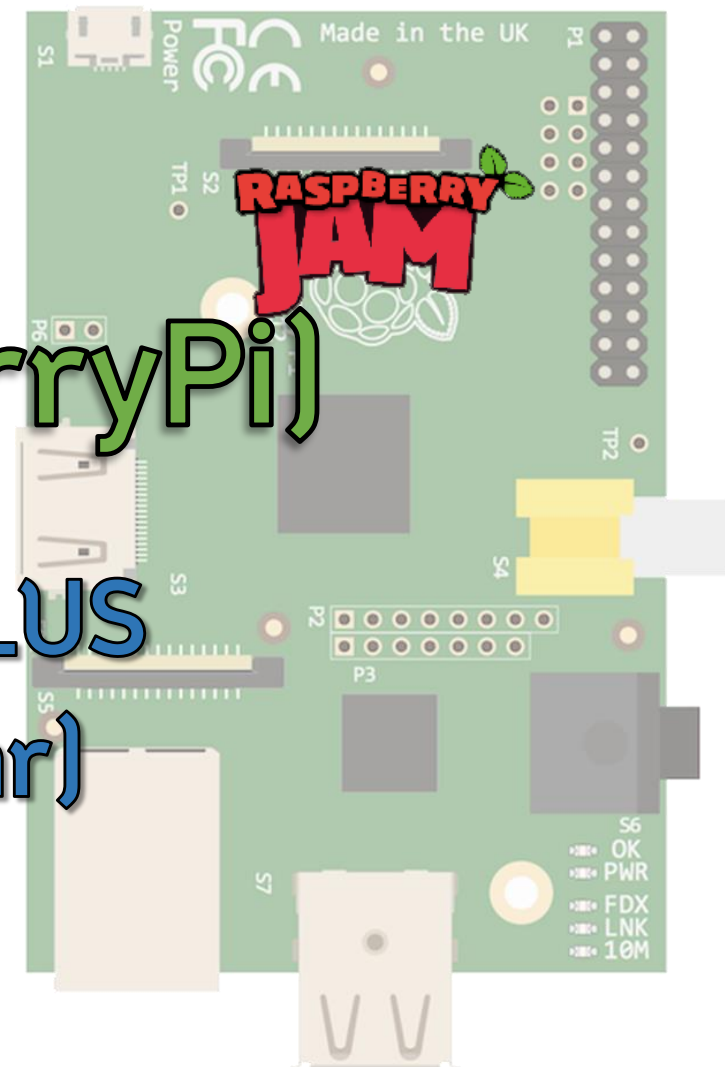


OpenMake

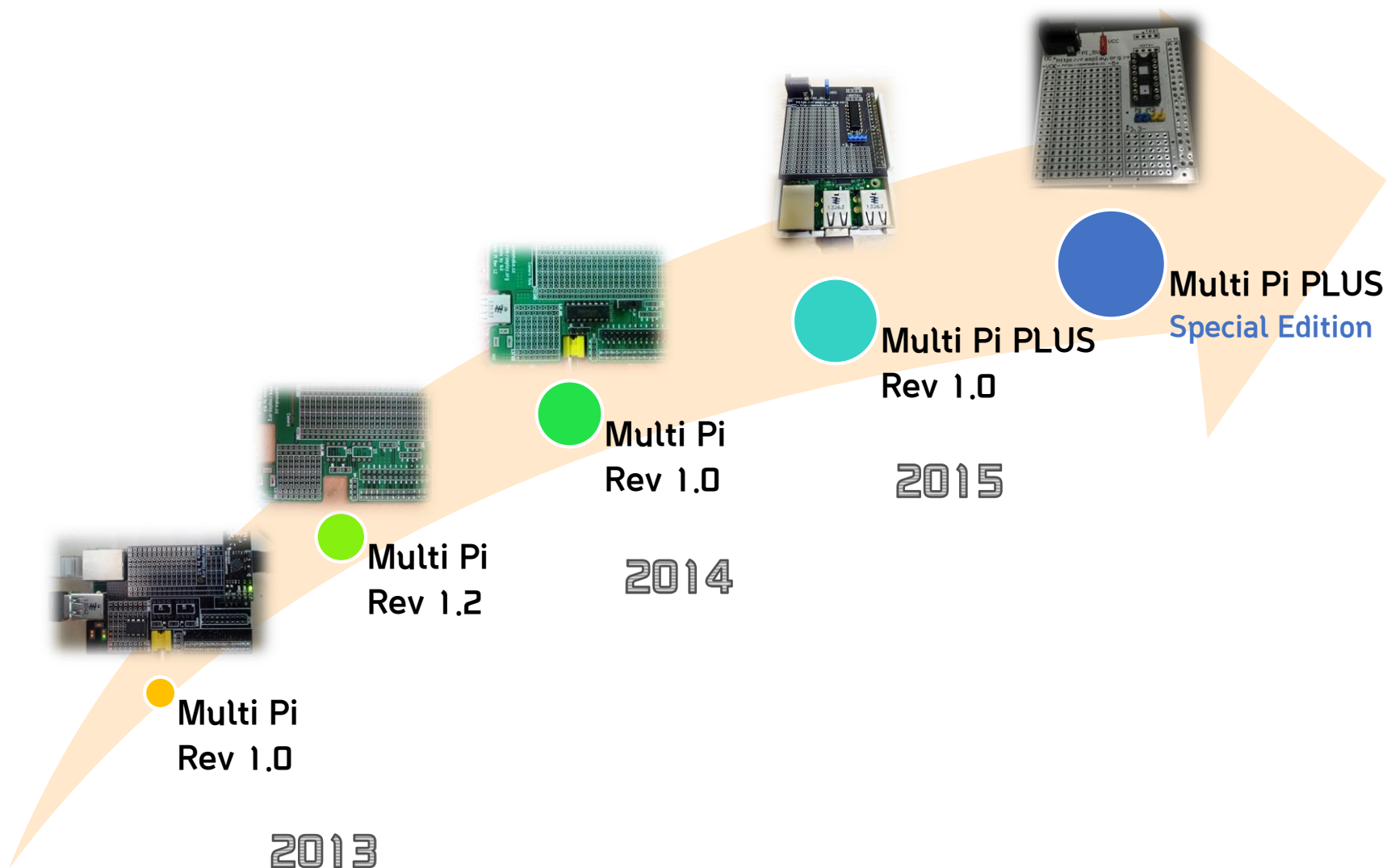
라즈베리파이(RaspberryPi)

D.I.Y RC-Kit : Multi-Pi PLUS (Multi Controller RC Car)

2015. 07.

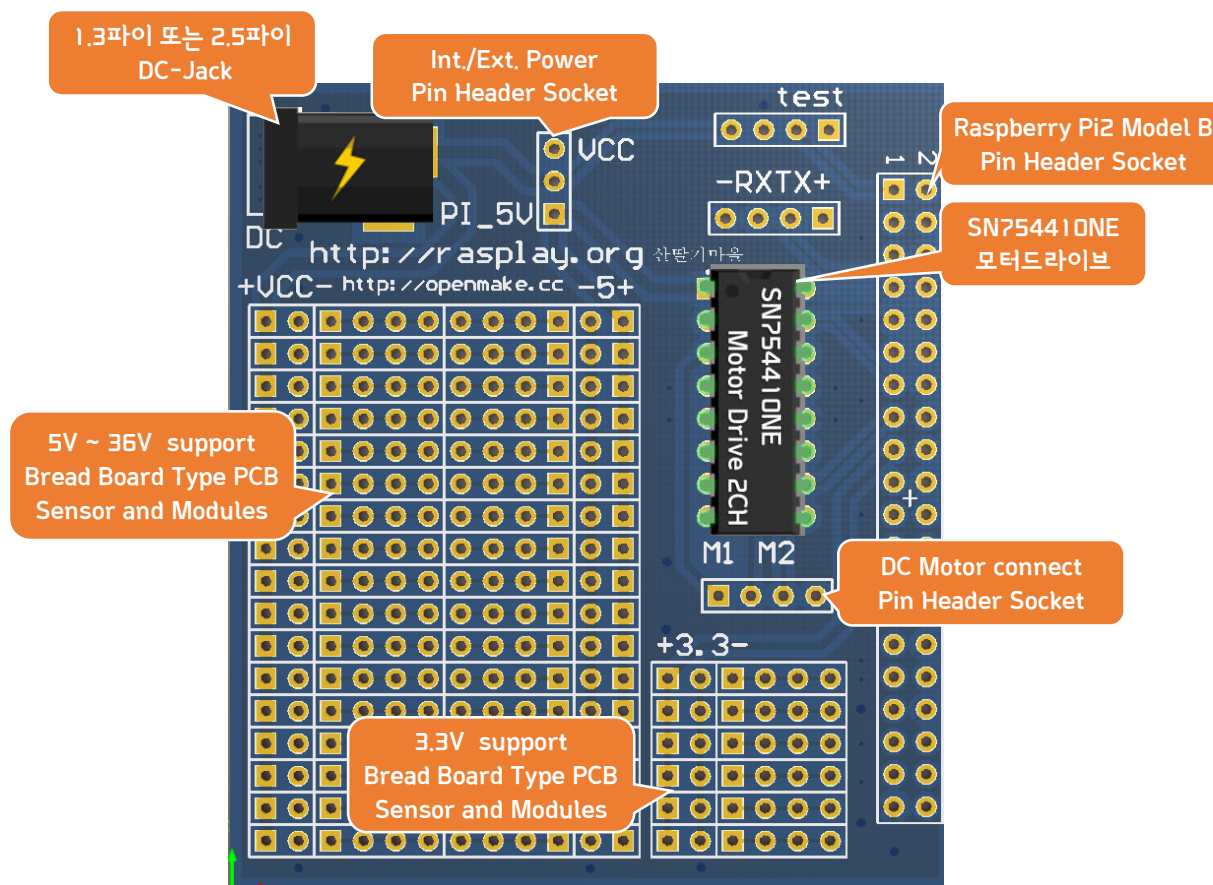


Multi-Pi History



0. What is Multi-Pi PLUS ?

라즈베리파이를 이용해 RC카 제작을 위한 모터드라이브 장착 외 센서를 추가 장착하여 좀더 다양한 기능으로 RC카를 제작 할 수 있도록 제작된 RC카 전용 보드

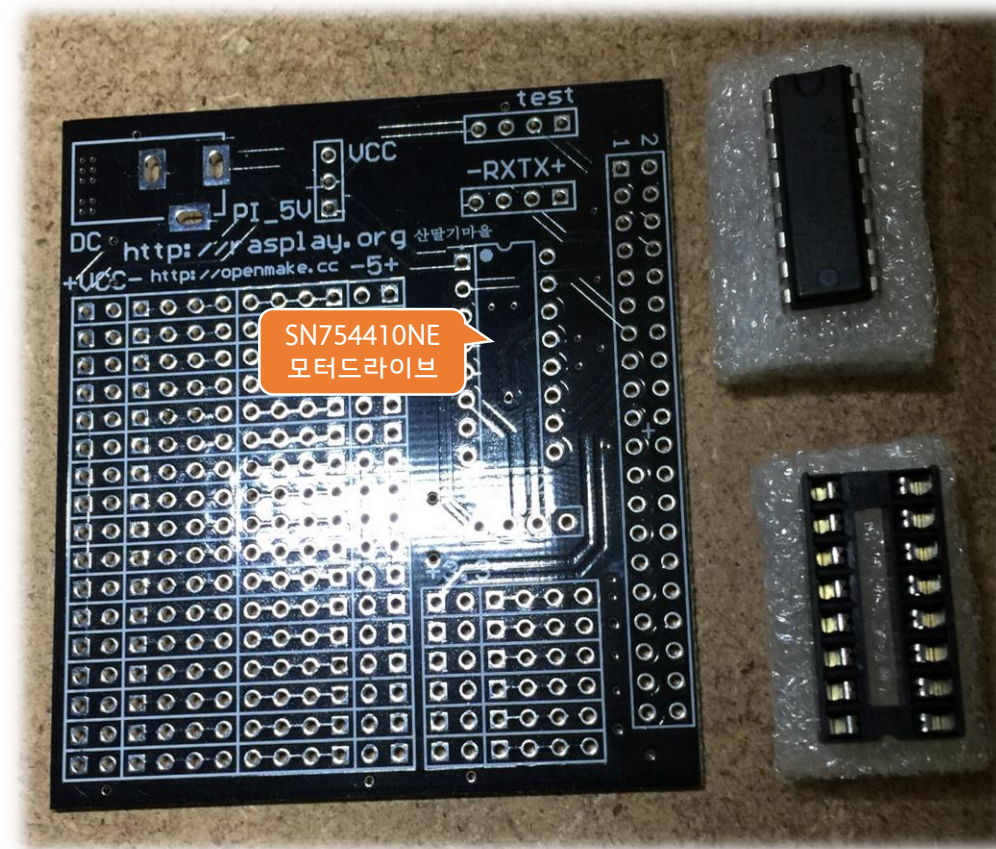
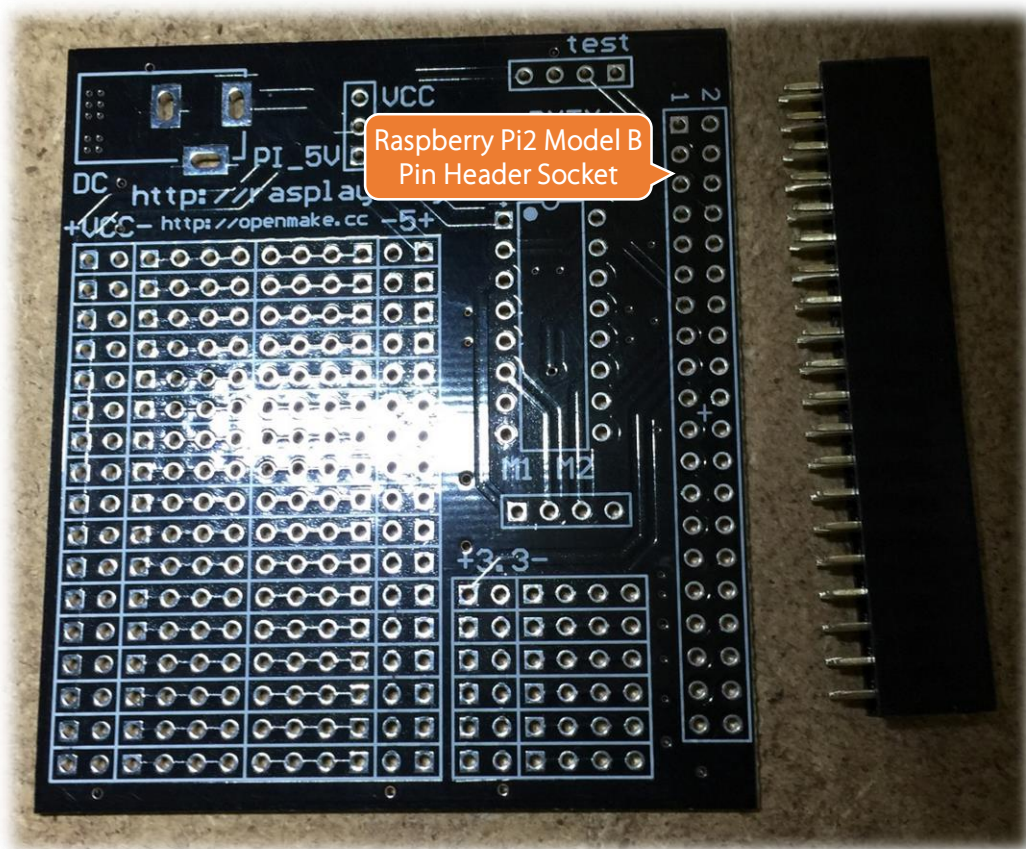


구성 부품	내용	비고
SN754410NE	* HighBridge Motor Drive	* VCC : 4.5V ~ 36V
Dip Socket 또는 Round Type Pin Header	* IC socket (2x8)	
DC Jack and DC Power (2.5 or 1.3 파이)	* 모터드라이브 전원부	* 암/수 한쌍
Pin Header(1x40) male	* test / VCC * uart / M1,M2	* 3 Pin * 4 Pin X 4
Pin Header Socket (2x20)	* 라즈베리파이 GPIO 소켓	

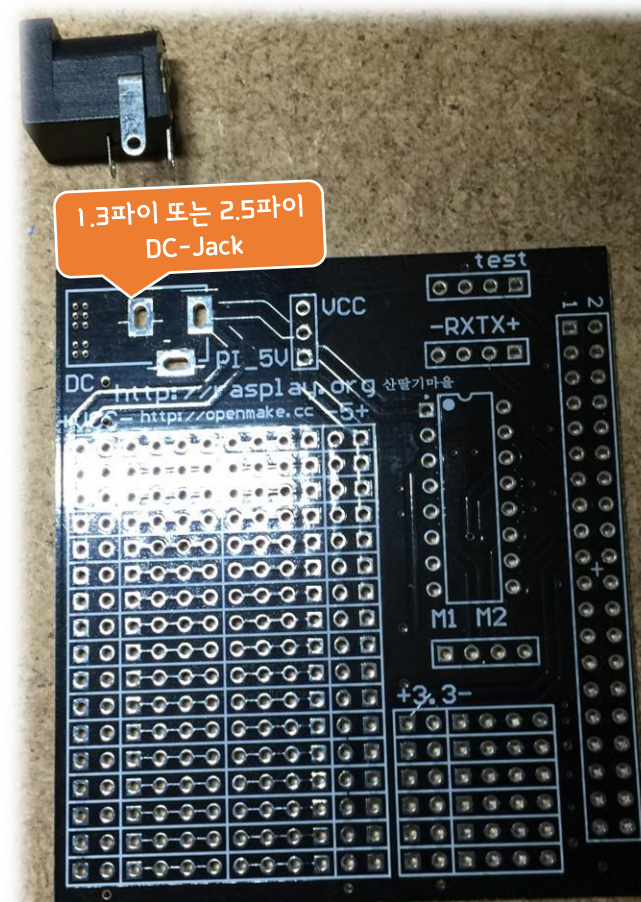
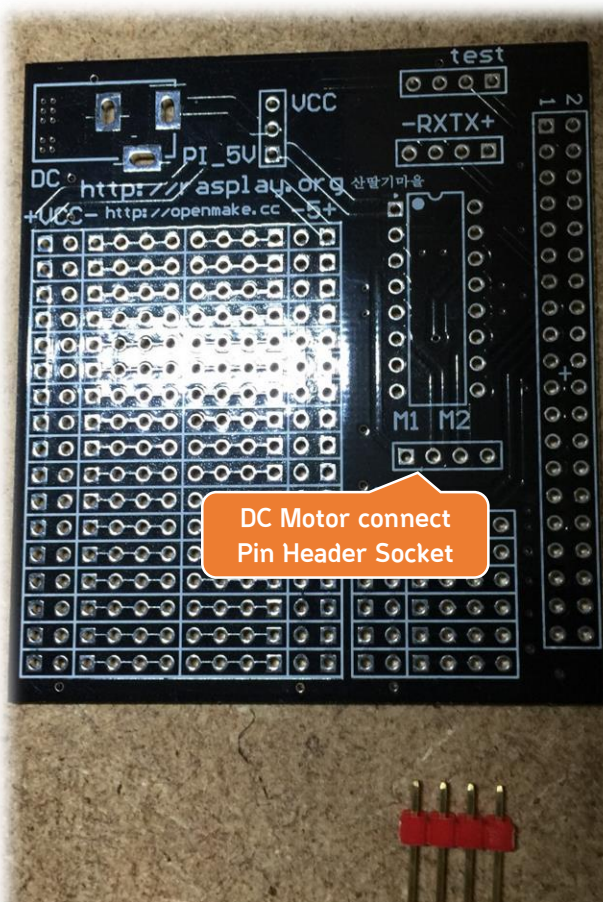
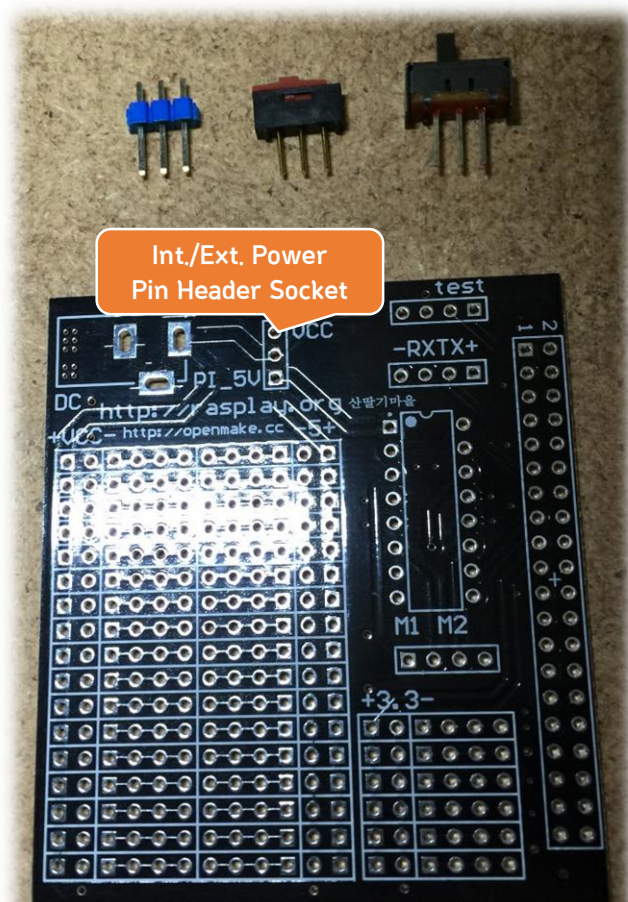
* Multi Pi Plus Motor Drive Pin Out

- o M1 : RaspberryPi GPIO 17 , GPIO 23
- o M2 : RaspberryPi GPIO 22, GPIO 27

1. Multi-Pi PLUS assemble

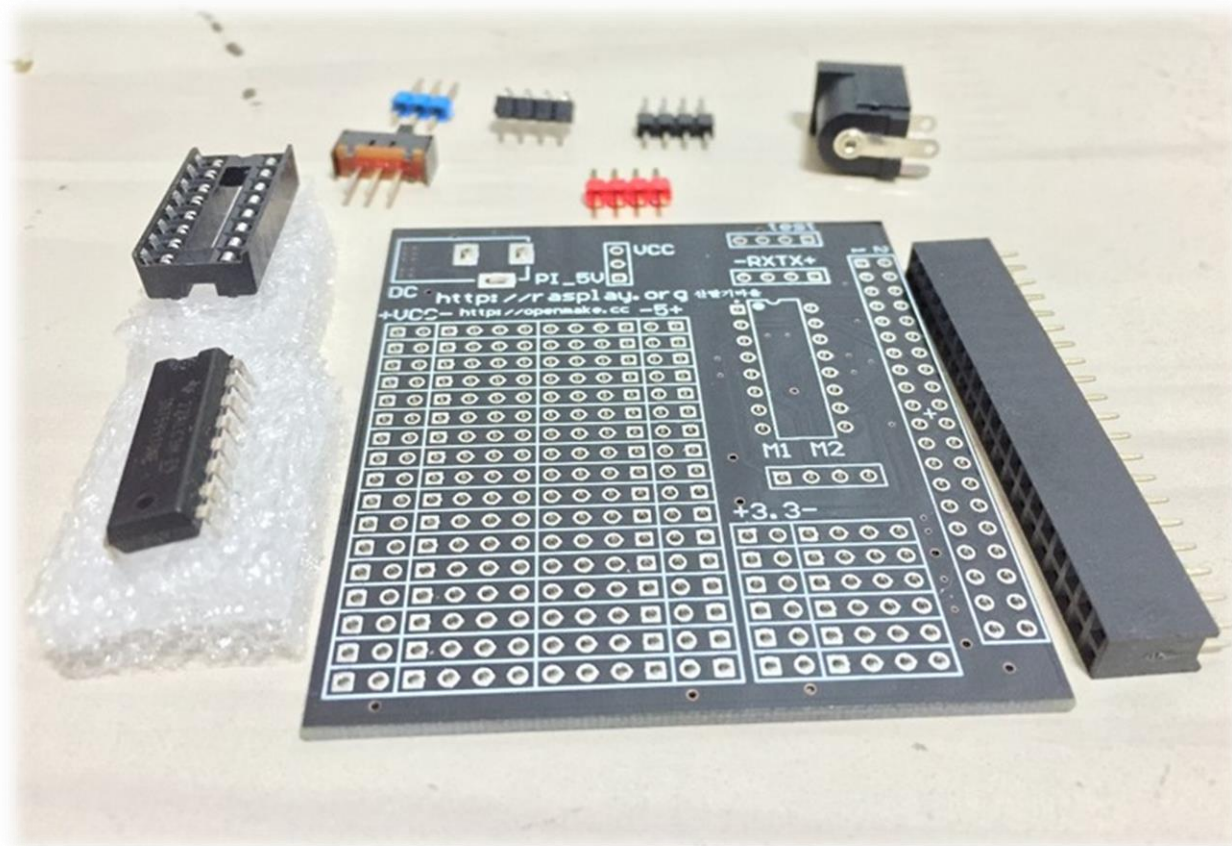


1. Multi-Pi PLUS assemble

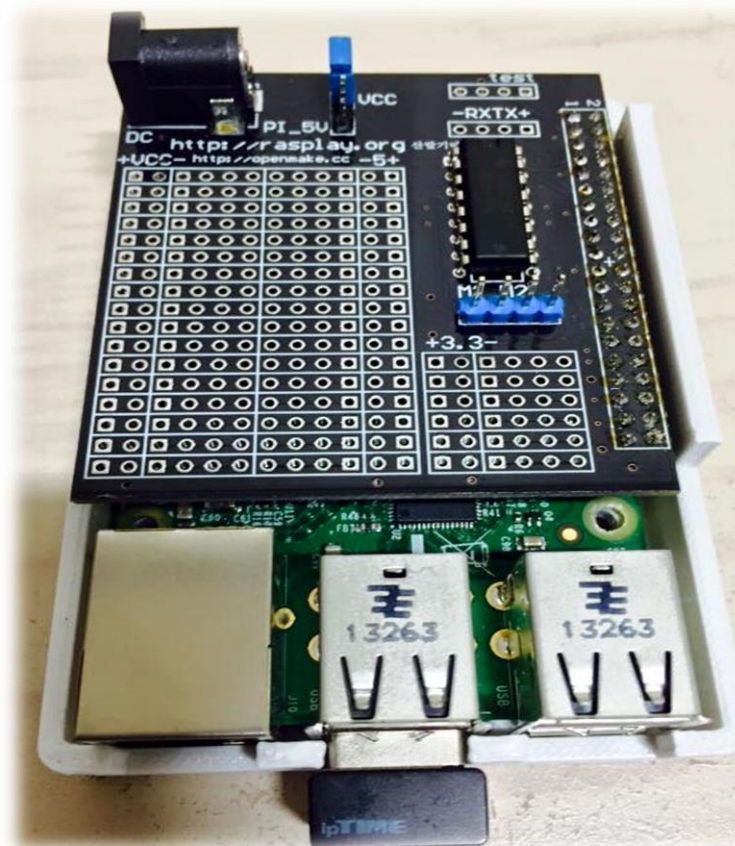


1. Multi-Pi PLUS assemble

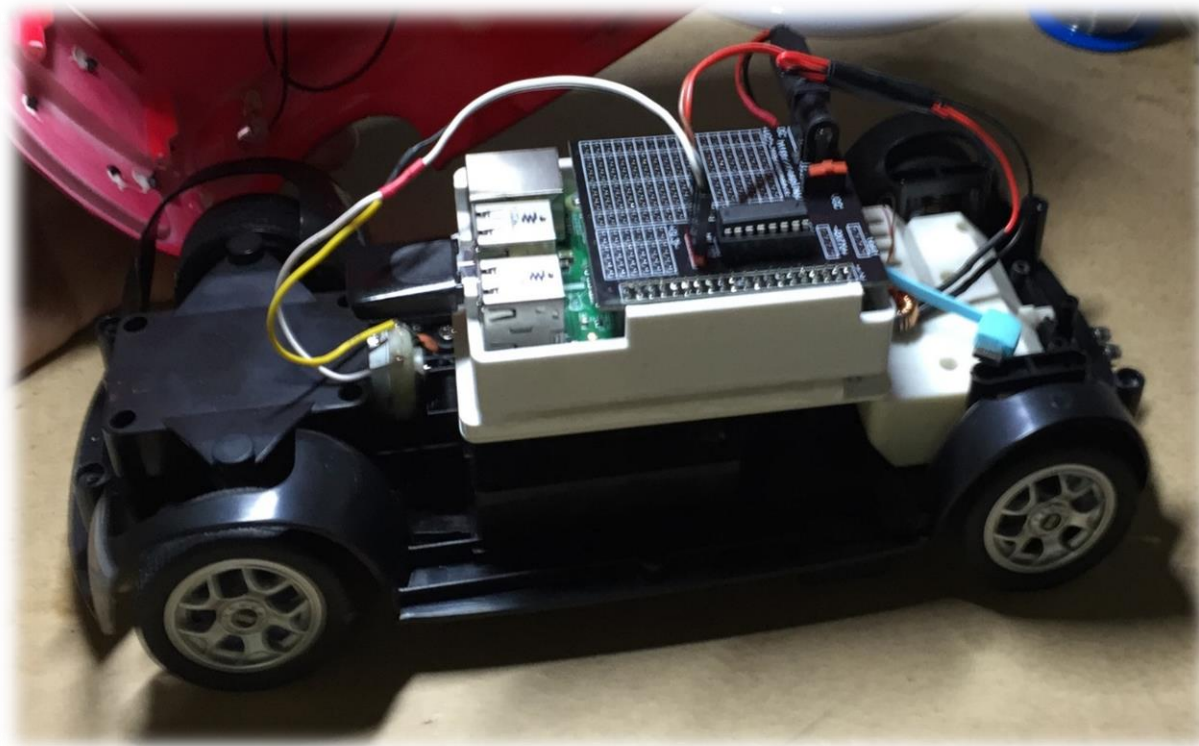
Before

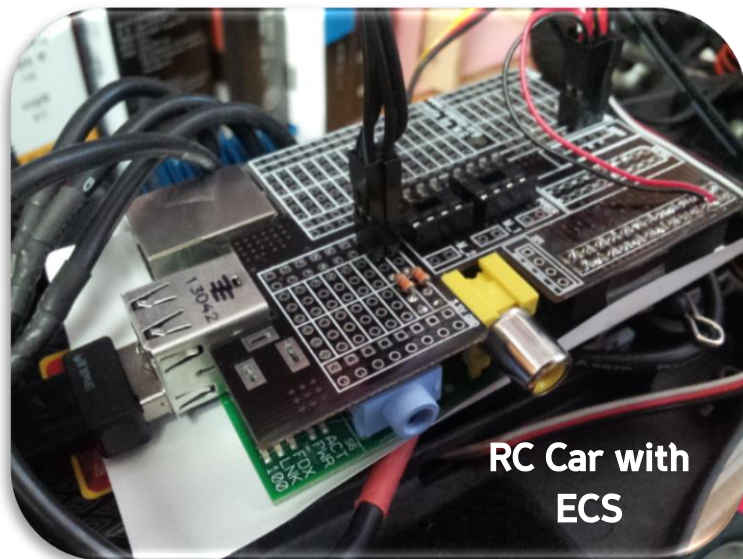


After

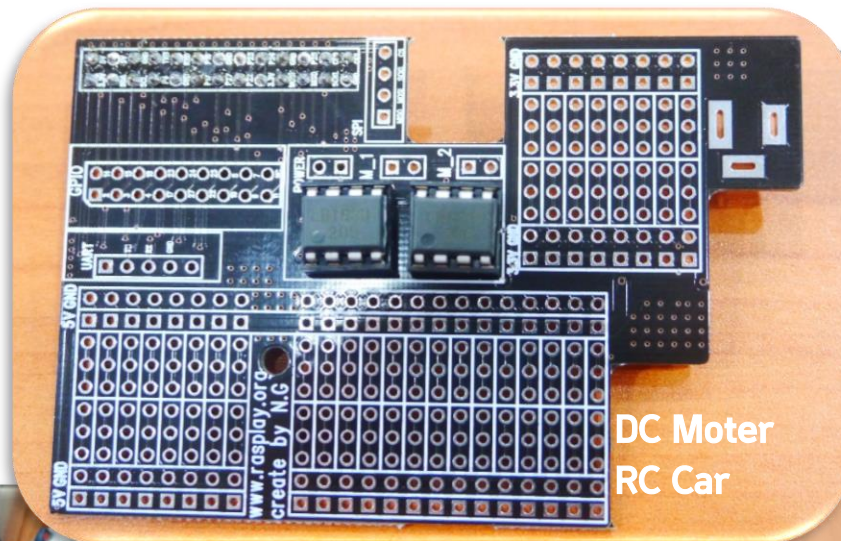


라즈베리파이를 이용해 RC카 제작을 위한 모터드라이브 장착 외 센서를 추가 장착하여 좀더 다양한 기능으로 RC카를 제작 할 수 있도록 고안된 라즈베리파이(A+/B+/2 Model B) RC카 전용 보드

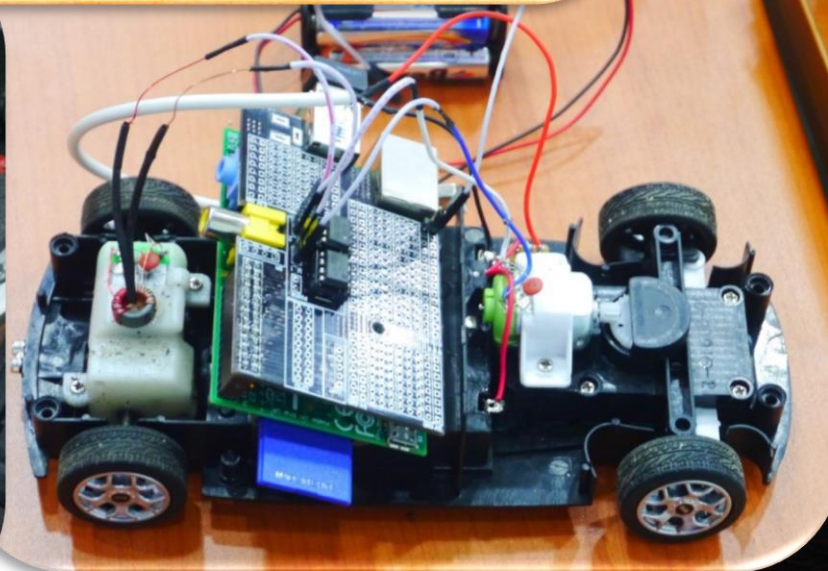
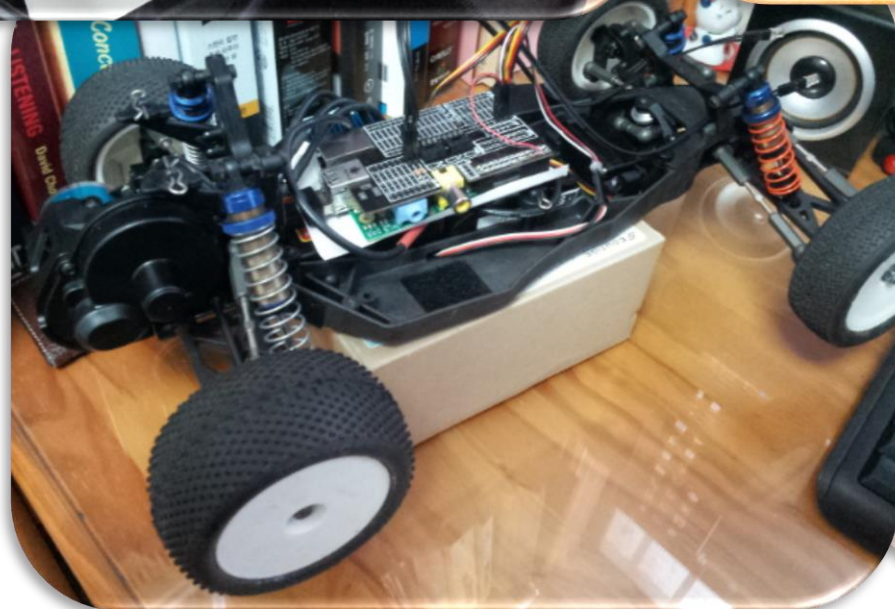




RC Car with
ECS

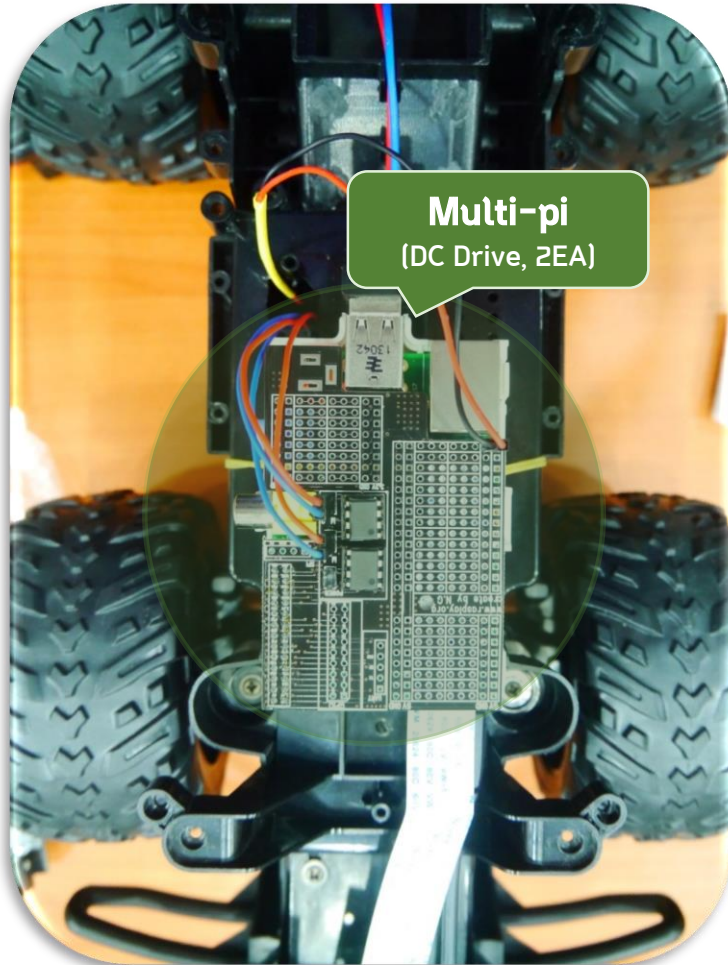


DC Motor
RC Car

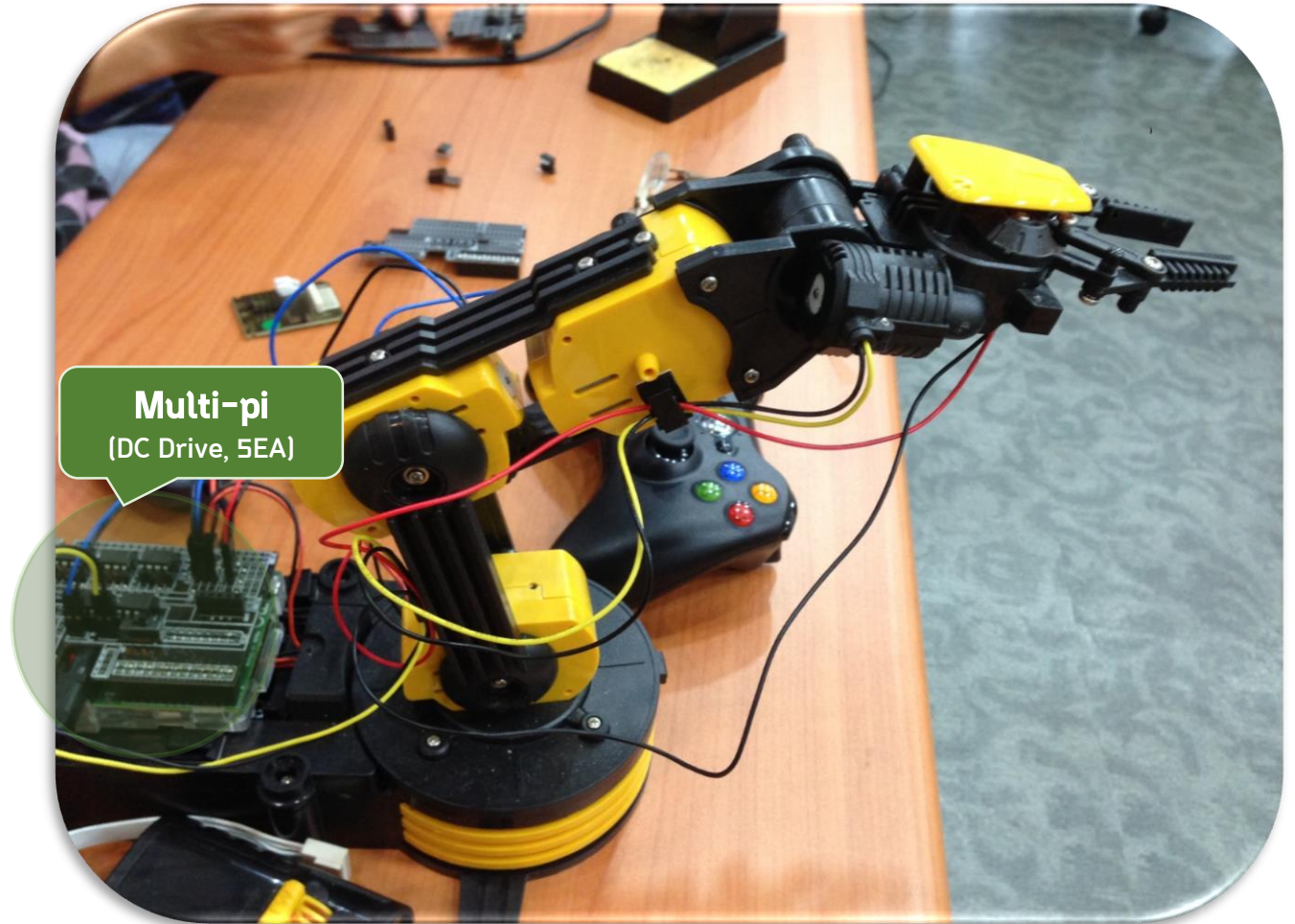




Multi-controlled RC car



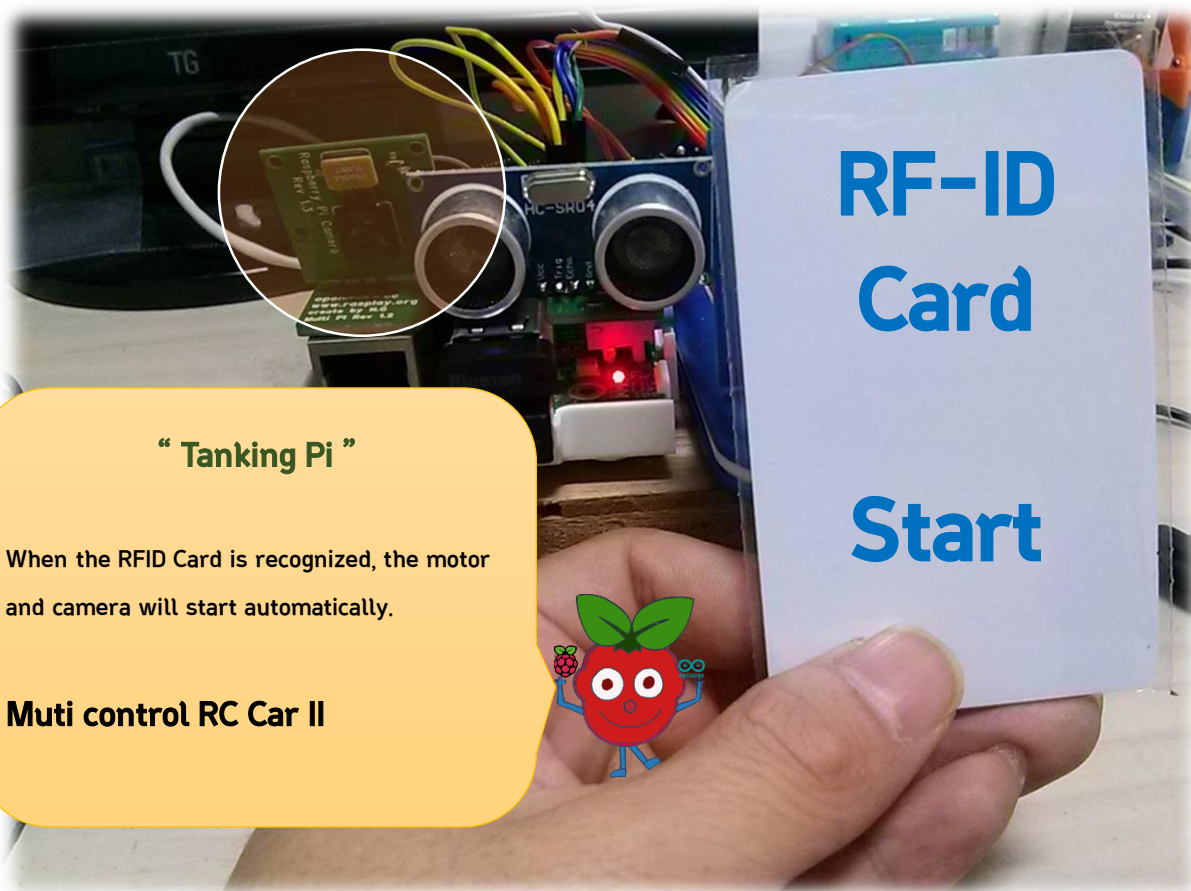
Raspberry Pi robot arm





Tanking Pi : RFID recognition Engine Start & Auto-Driving RC car

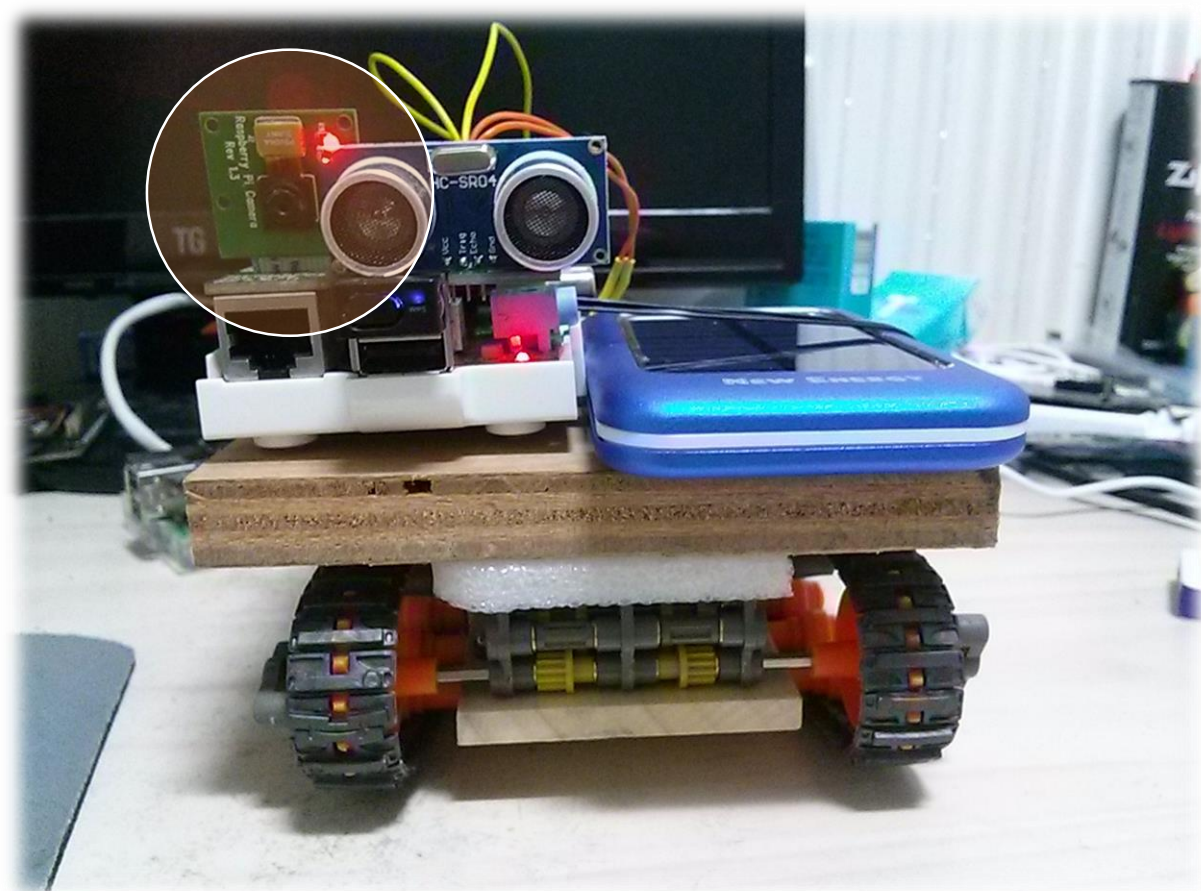
* Tanking Pi Car : Tank + Thinking + RaspberryPi



“ Tanking Pi ”

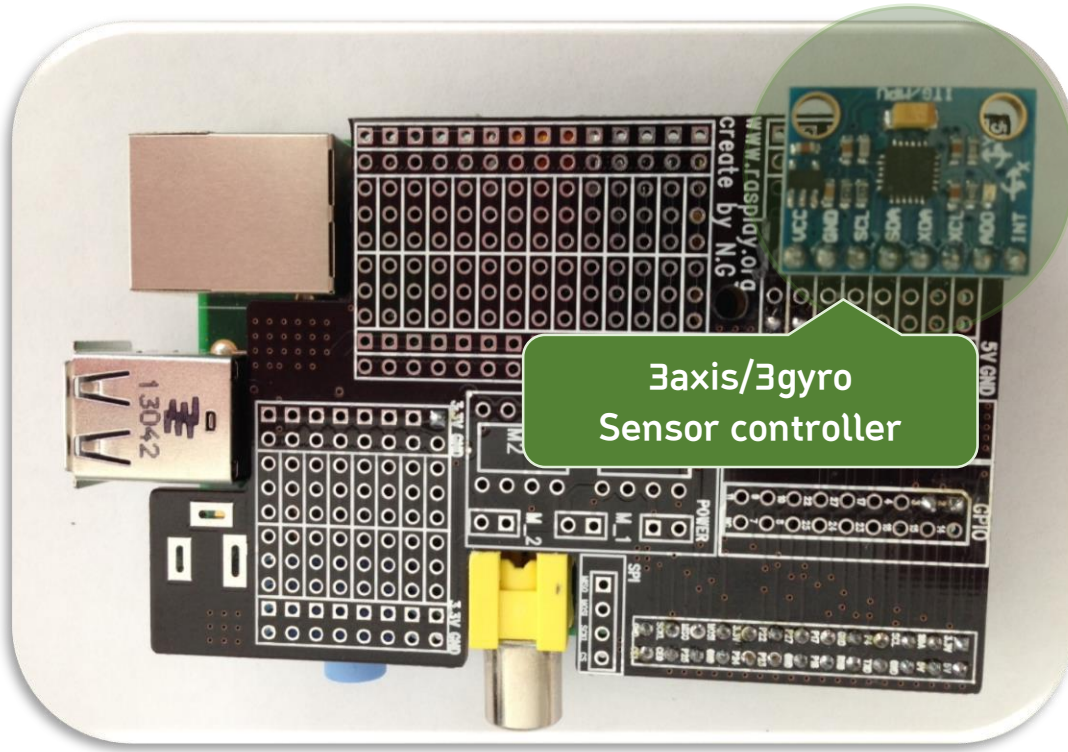
When the RFID Card is recognized, the motor and camera will start automatically.

Muti control RC Car II

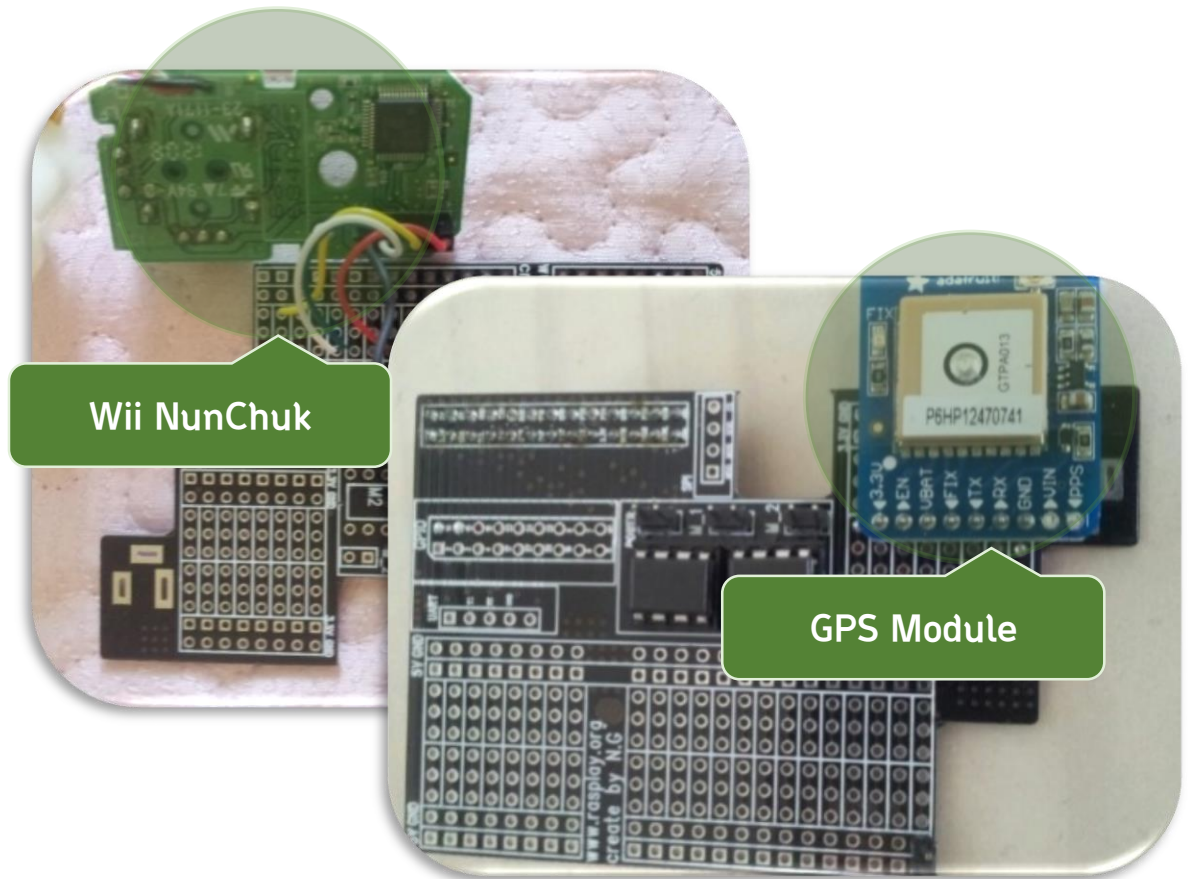




3axis acceleration/gyro Remote controller

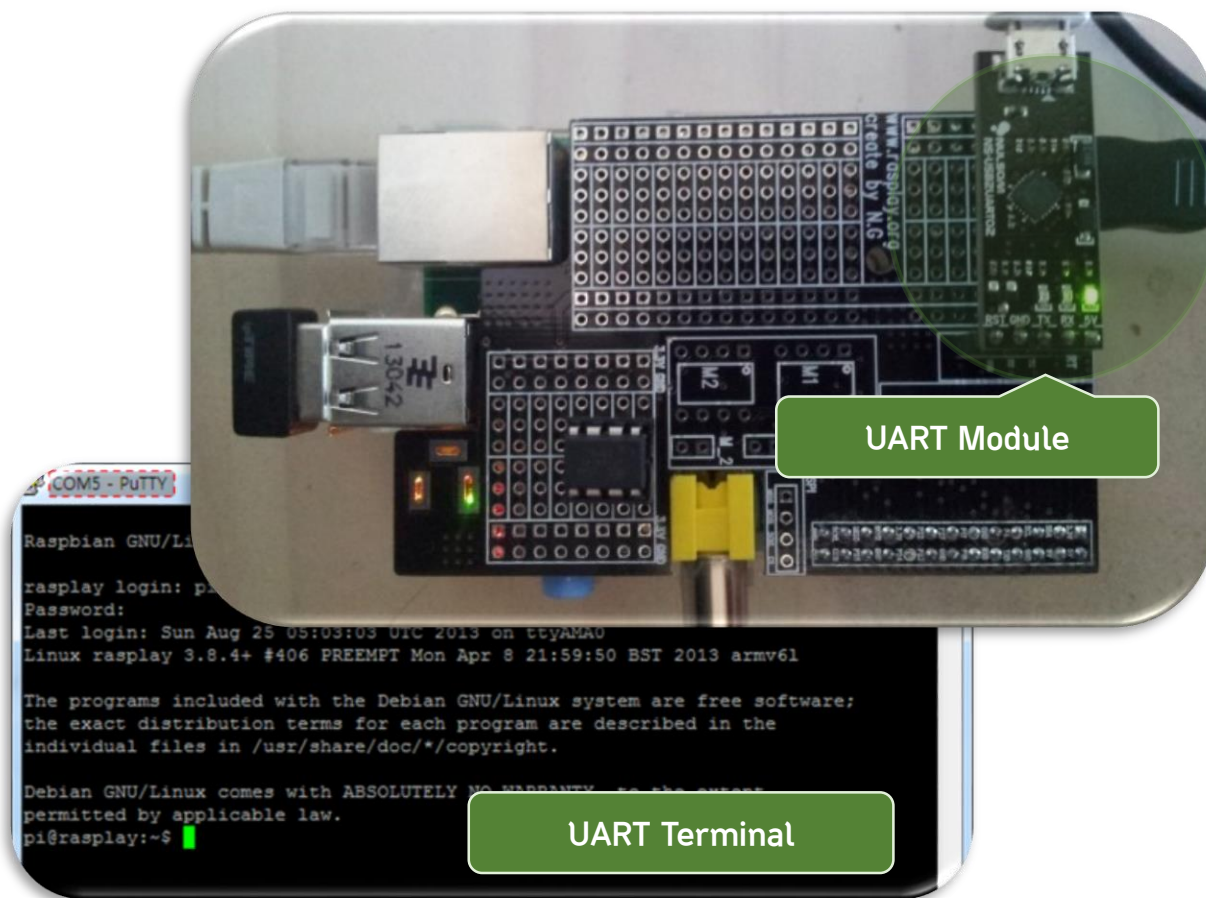


Multi Wii NunChuk /GPS Module





Multi-Pi UART Terminal communication



Raspberry pi Monitoring LCD

