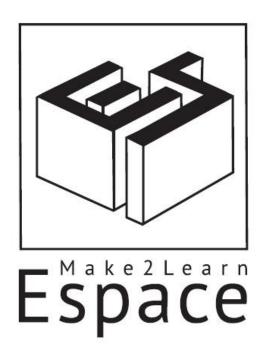


# How-To Assemble AI Car







### Assemble AI Car

William Tan Section Head/Artificial Intelligence, School of Electronics & Info-Comm Technology



### Scope

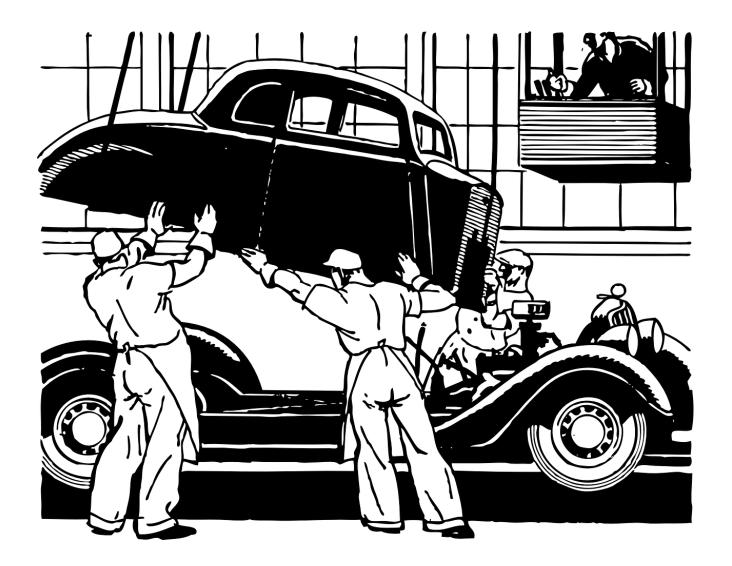
- Objectives
- Assembly Steps





### Objectives

- At the end of this training, students will
  - Assembled their AI Car







# Al Car Building Guide

- 1. Offline Guide (This PDF)
- 2. YouTube Video Guide: Al Car Building Guide



## Part List



### Different type of wire lengths:

Blue: Long

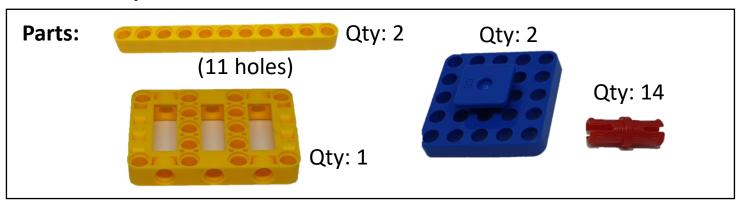
Grey: Middle

Black: Short

**Two pins cable:** Use with switch (*Not applicable for AI Car building*)

While during building the AI Car, you are freely to decide the lengths of wire to use

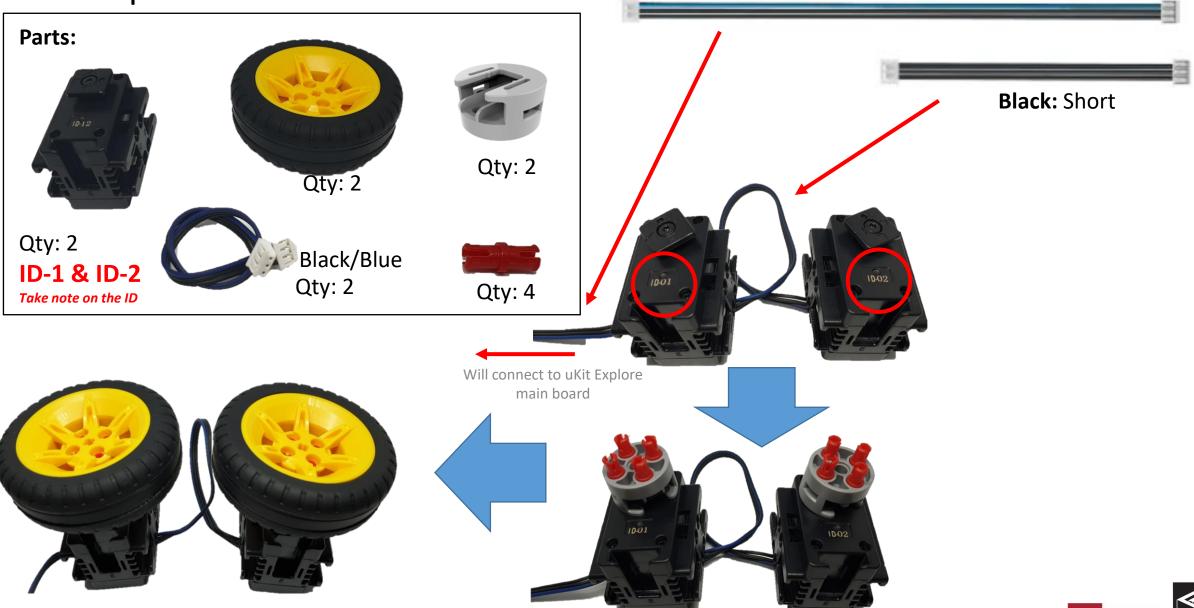
### Step 1: Motors Base Plate







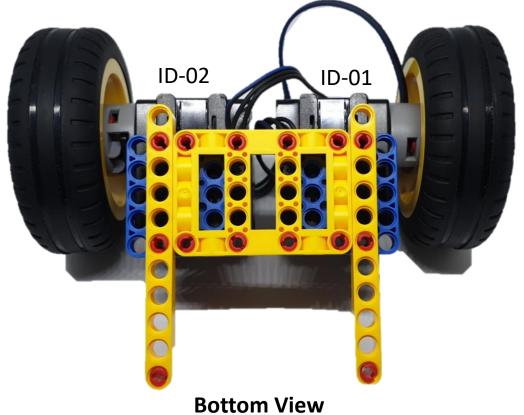
### Step 2: Servo Motors

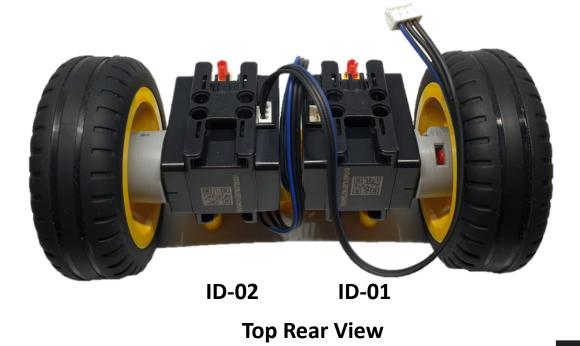


Blue: Long

### Step 3: Motors with Base Plate

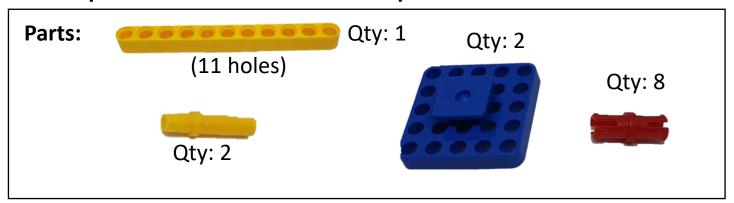


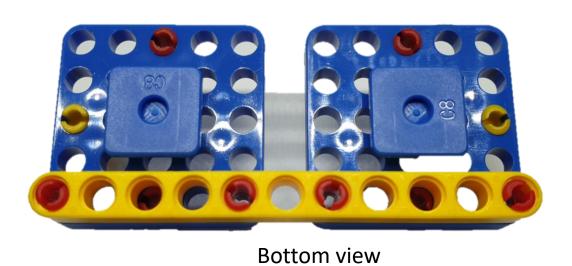






### Step 4: Motors Top Plate



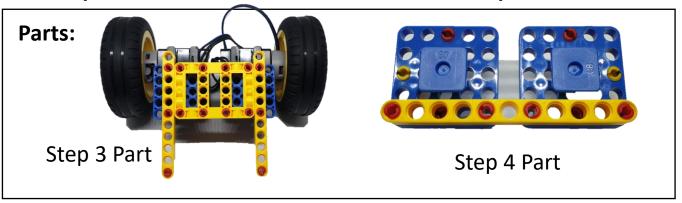


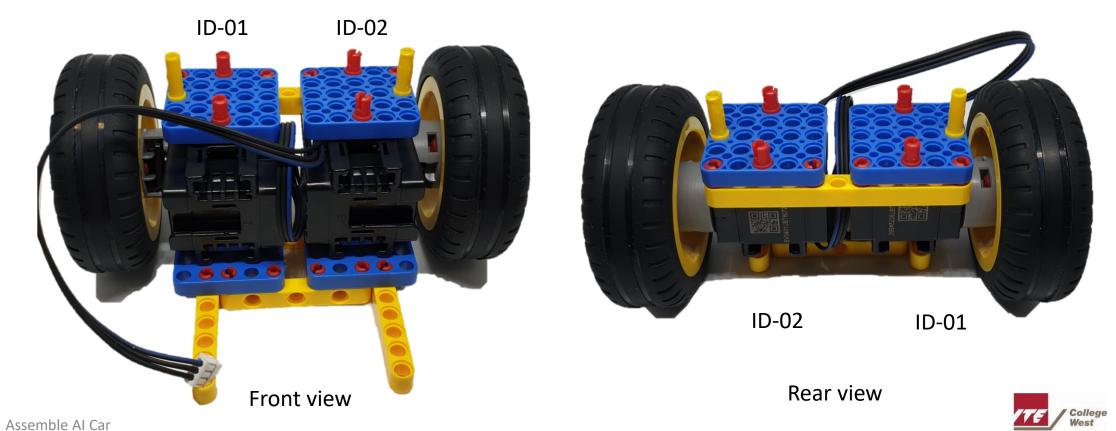


Top view

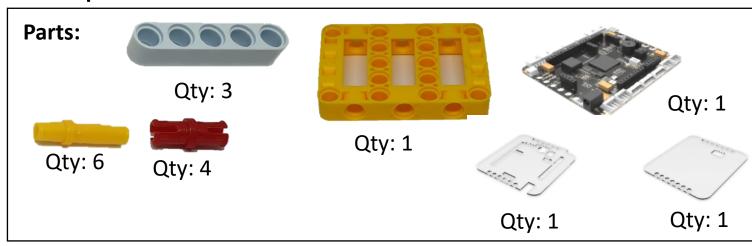


### Step 5: Motors with Top Plate

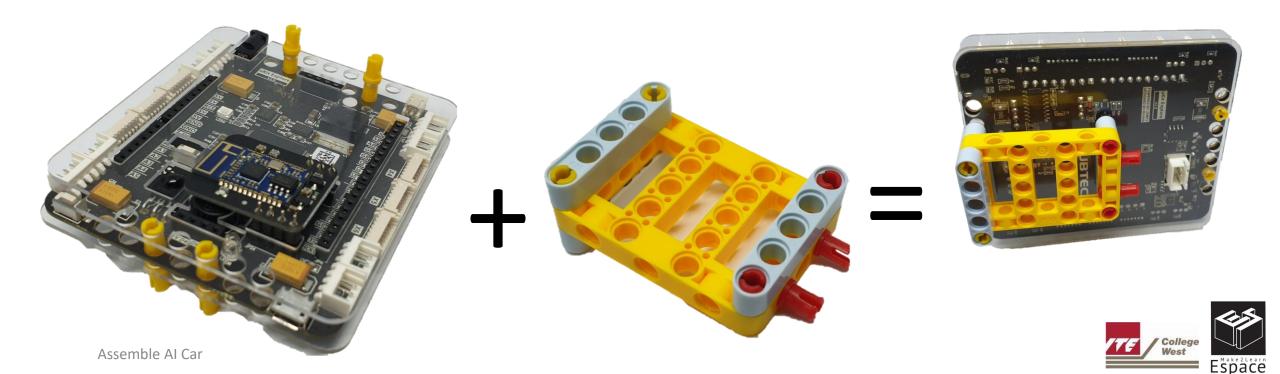




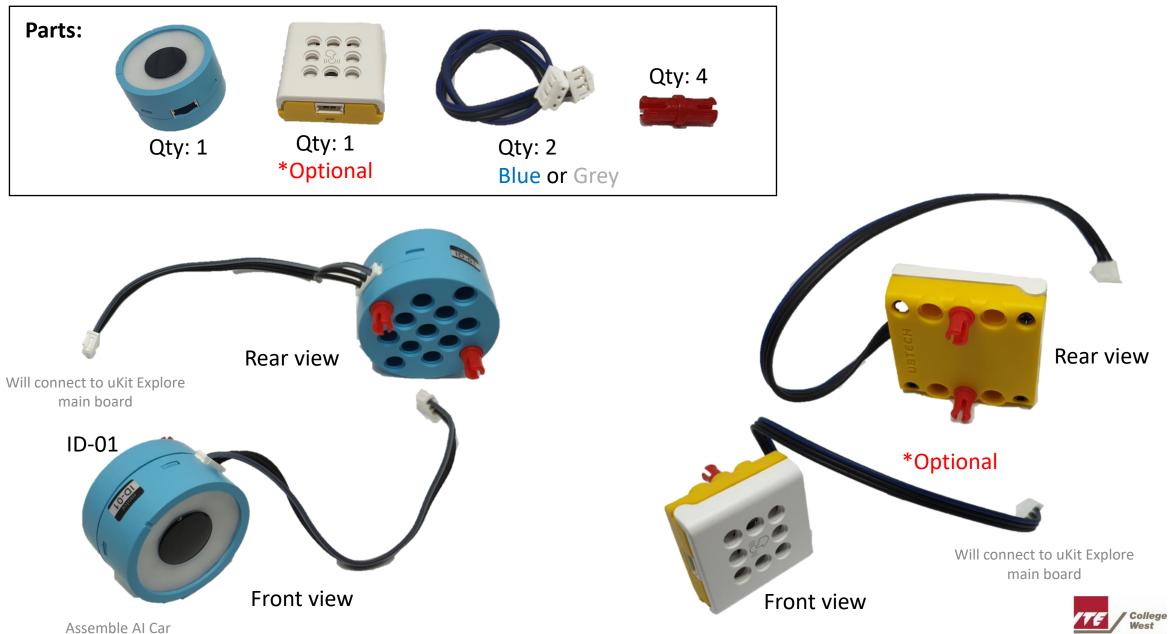
### Step 6: Arduino Board and Mount



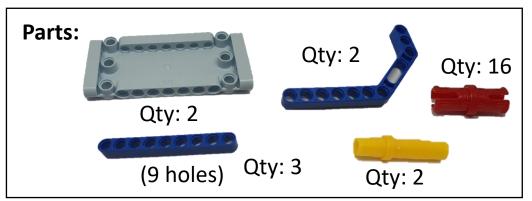
Please refer to <u>Step 6 Video Guide</u> to assemble the top and bottom acrylic

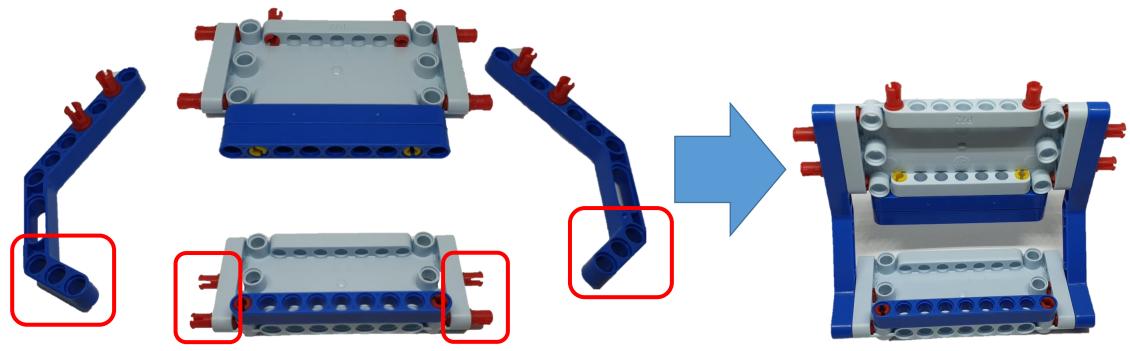


### Step 7: Eye LED Lamp & Button

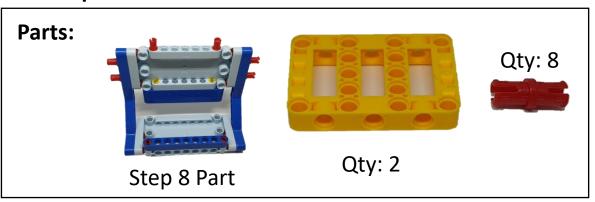


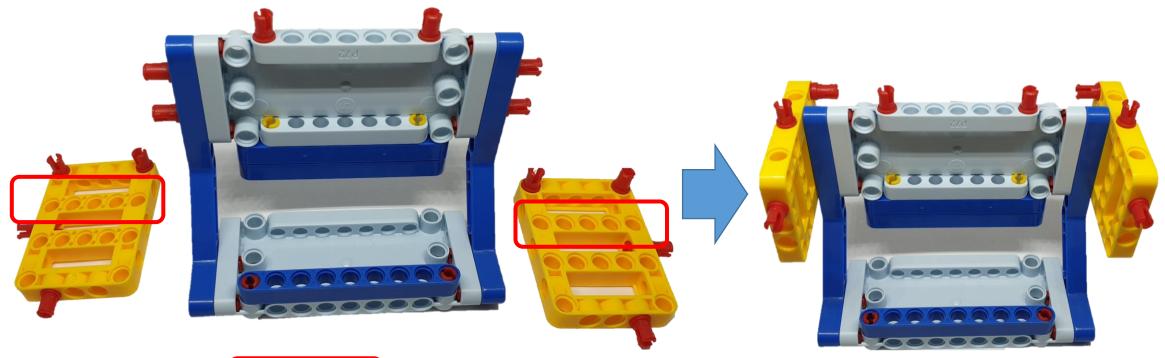
### Step 8: Mobile Holder part 1





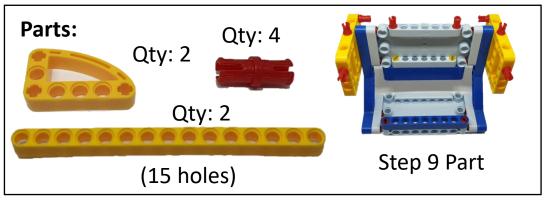
### Step 9: Mobile Holder Part 2

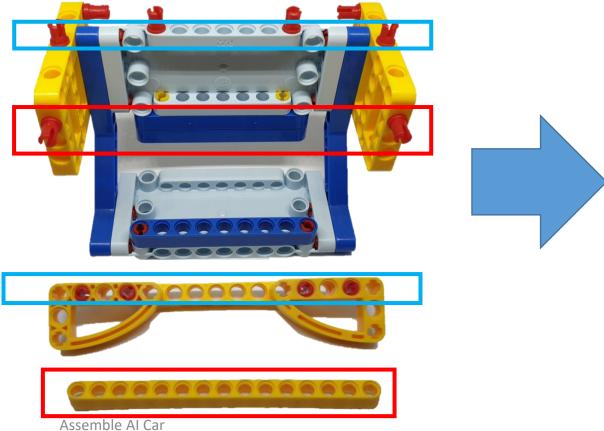


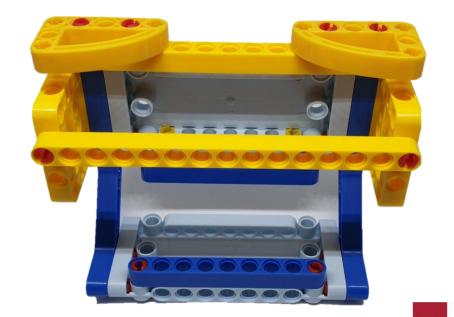




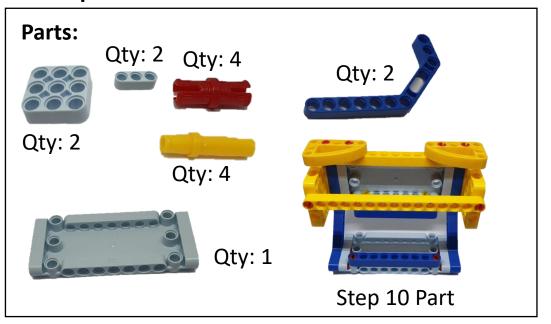
### Step 10: Mobile Holder Part 3

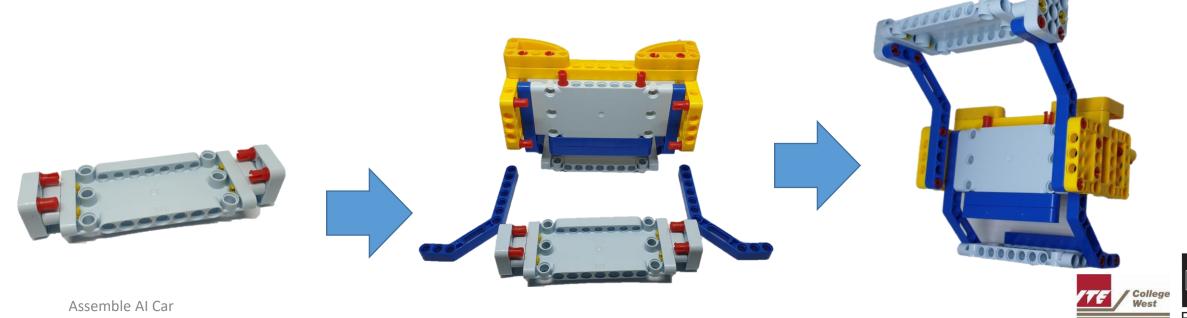




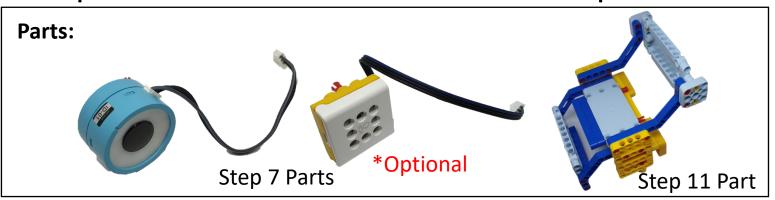


### Step 11: Mobile Holder Part 4





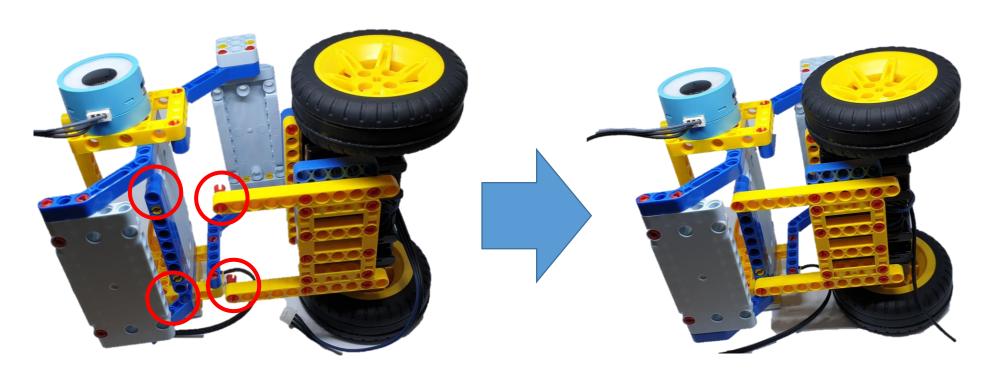
### Step 12: Put in the LED Lamp and Button





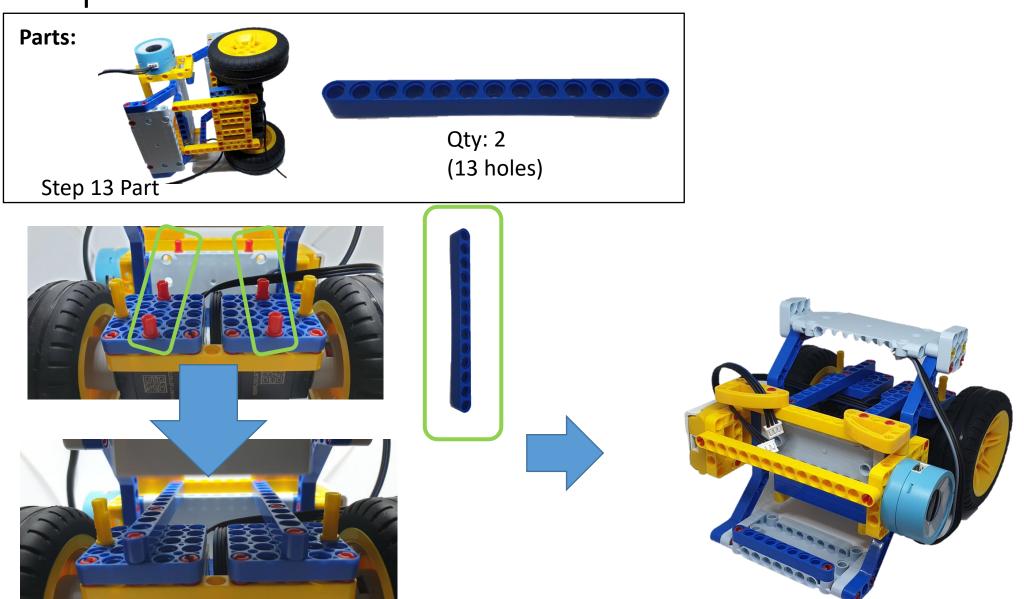
### Step 13: Assemble Motors with Mobile Holder





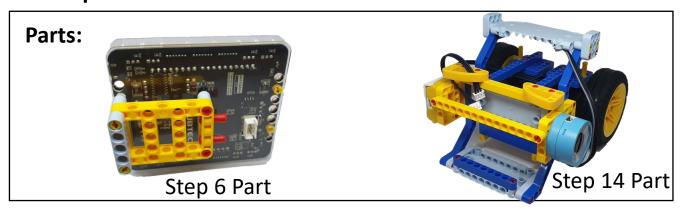


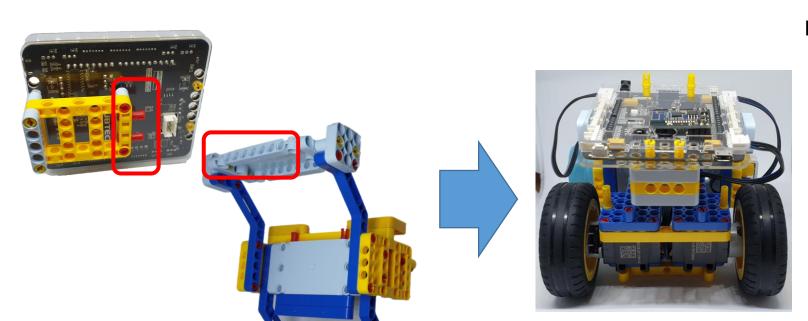
### Step 14: Secure Motors with Mobile Holder

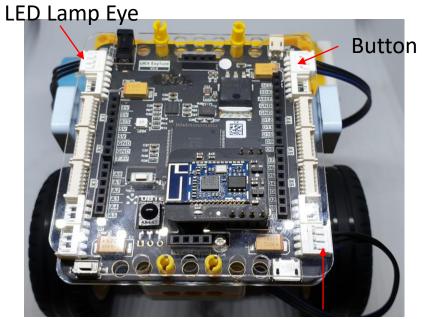


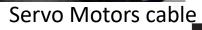


### Step 15: Assemble Arduino board with Car



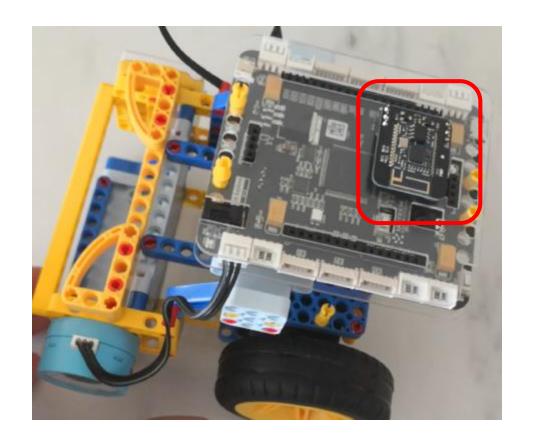




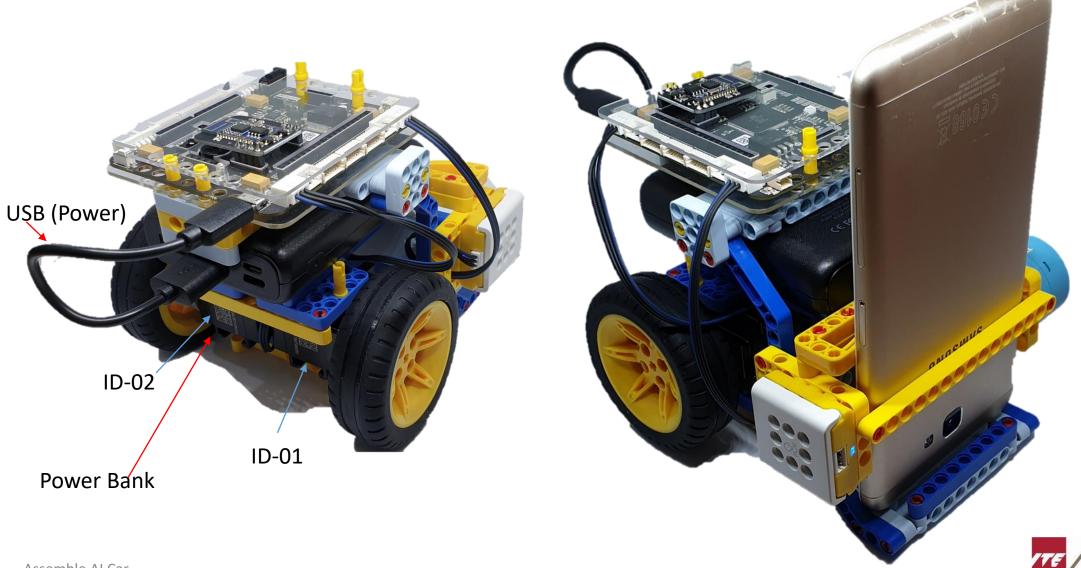




### Step 16: Putting on Bluetooth Module



### Step 17: Power Bank and Mobile phone



# Congratulations

