

# Workshop 1

RPi = Raspberry Pi

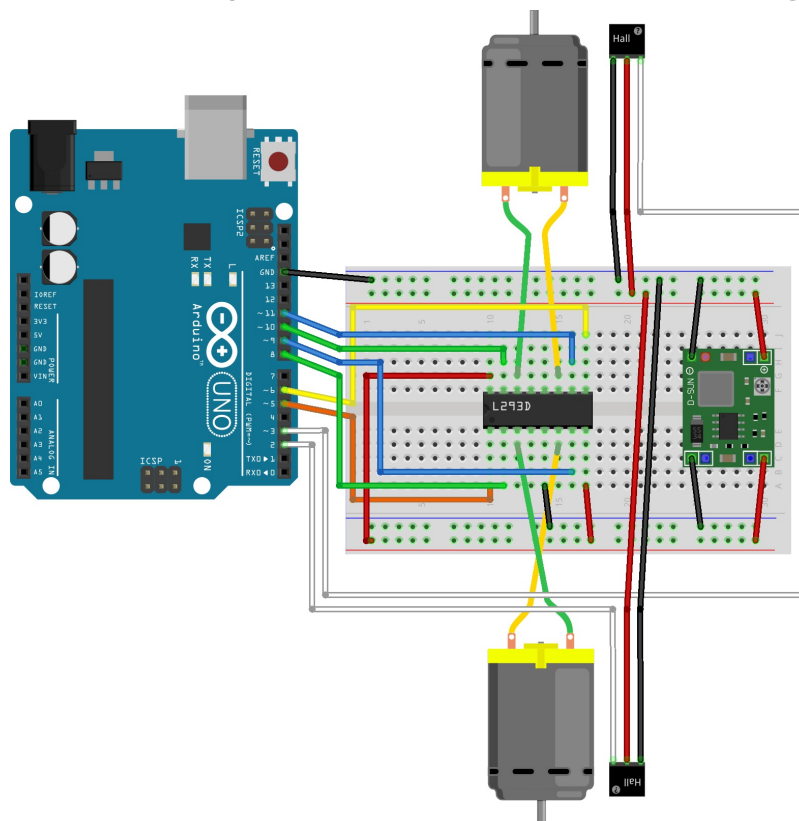
## 1. Assemble robot

### i. Mechanics

- Solder wires to the motors.
- Attach encoder wheel and the hall effect sensor.
- Fasten cables with ~~plastic cable wrappers~~ around the motor.
- Fasten arduino and breadboard, make sure there is space for RPi.

### ii. Electronics

- Solder wires to the voltage regulator.
- Make sure that Voltage regulator output 5V while attached to 12V supply. You can check voltage with a multimeter.
- Connect all parts as shown on the following figure.



## 2. Make motors rotate

- If everything is correctly wired you should be able to rotate motors

by making pin

### 3. Read encoders