Red for bus power

Host MCU

MOTOR

Blue for 5V or 3.3V

Green for signal

UART

Over Heat

C or V &Temp

ADC/Temp

CC PWM

CV PWM

Emergency Stop

PID Controller

Situation Judging

PCB 3

PCB 4

PCB 2

PCB 1

Sensors

Sensors

Energy Recycle System

Battery Module

Power Management

Battery Management

FOC Drive

WiFi & Bluetooth Interface

BMS Receive&CMD

Recycle Control

Bus Power Management

Emergency Detect

GPIO

Screen & Buttons

Display & Manipulate

Velocity Control

Buffer

UART

**Host**

on Main Control & Power Management

BMS

Motor Drive &Sensors

Energy Recycle

User Interaction