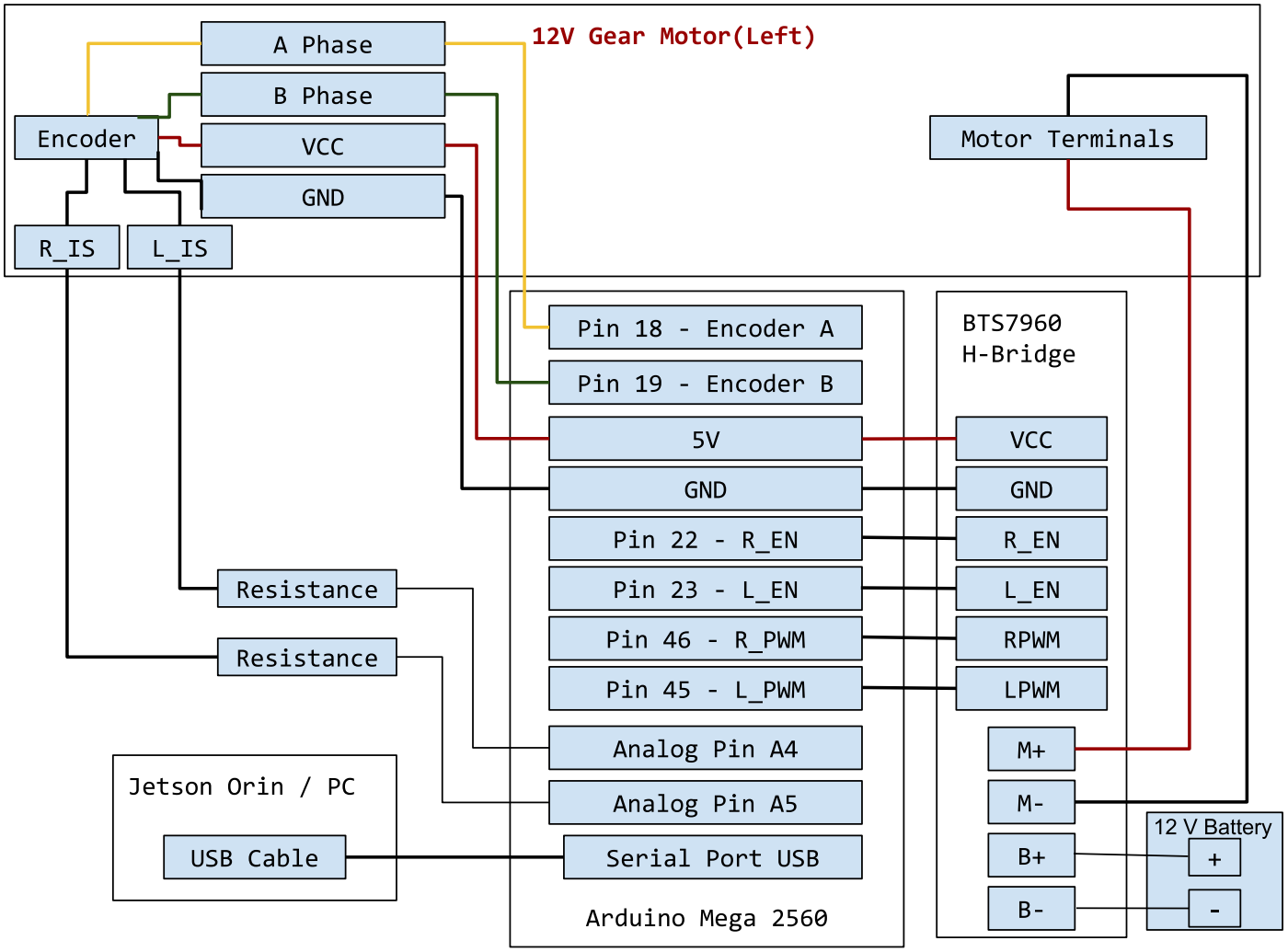
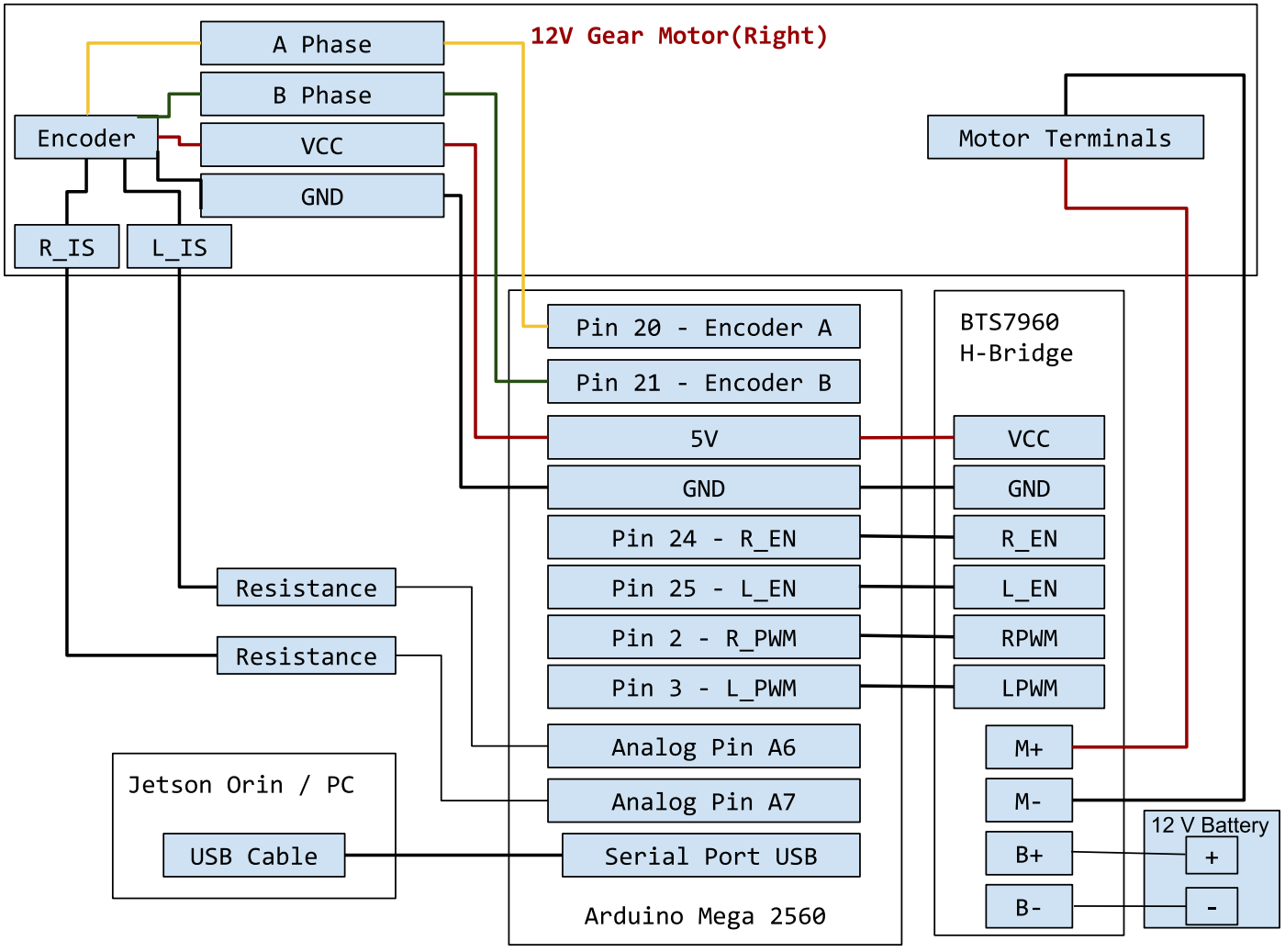
Hardware Architecture & Wiring(Left Motor)



Safety Resistors: You MUST place a 4.7kΩ - 10kΩ resistor between the Driver IS pins and the Arduino Analog pins to protect the CPU.
Interrupts: Left Motor Encoder A MUST go to Pin 18. Do not swap with Pin 19.
Common Ground: Ensure the 12V Battery GND and Arduino GND are connected.

Hardware Architecture & Wiring(Left Motor)



Safety Resistors: You MUST place a 4.7kΩ - 10kΩ resistor between the Driver IS pins and the Arduino Analog pins to protect the CPU.
Interrupts: Right Motor Encoder A MUST go to Pin 20. Do not swap with Pin 21.
Common Ground: Ensure the 12V Battery GND and Arduino GND are connected.