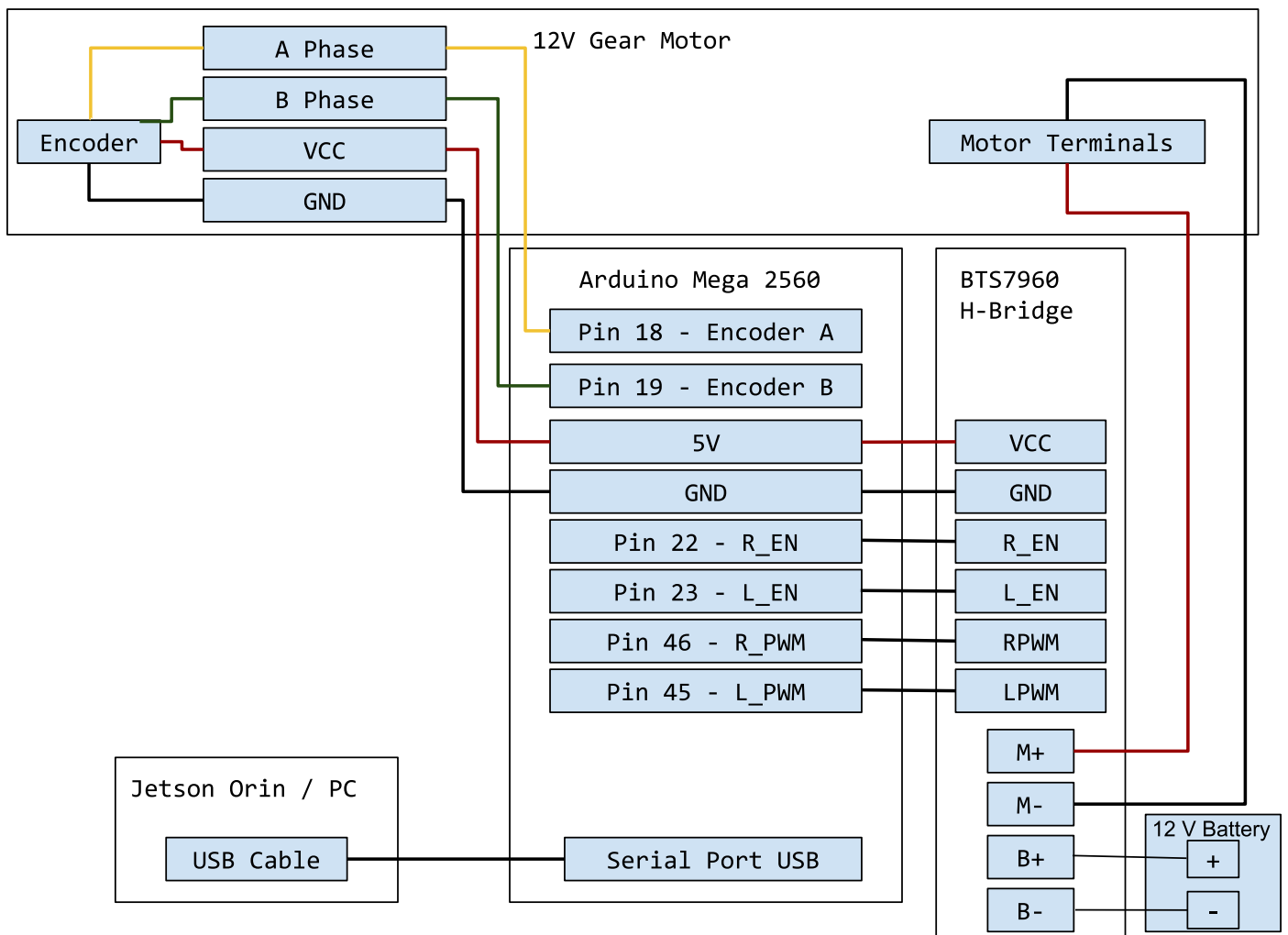


Hardware Architecture & Wiring



Critical Wiring Notes:

- Encoder:** The motor's encoder must be connected to **Interrupt Pins**.
On the Mega, pins 2, 3, 18, 19, 20, 21 are interrupt-capable.
We use **18 and 19**.
- Common Ground:** You must connect the Arduino GND to the BTS7960 GND.
- Power:** The BTS7960 handles the heavy 12V current; the Arduino only provides 5V control logic.