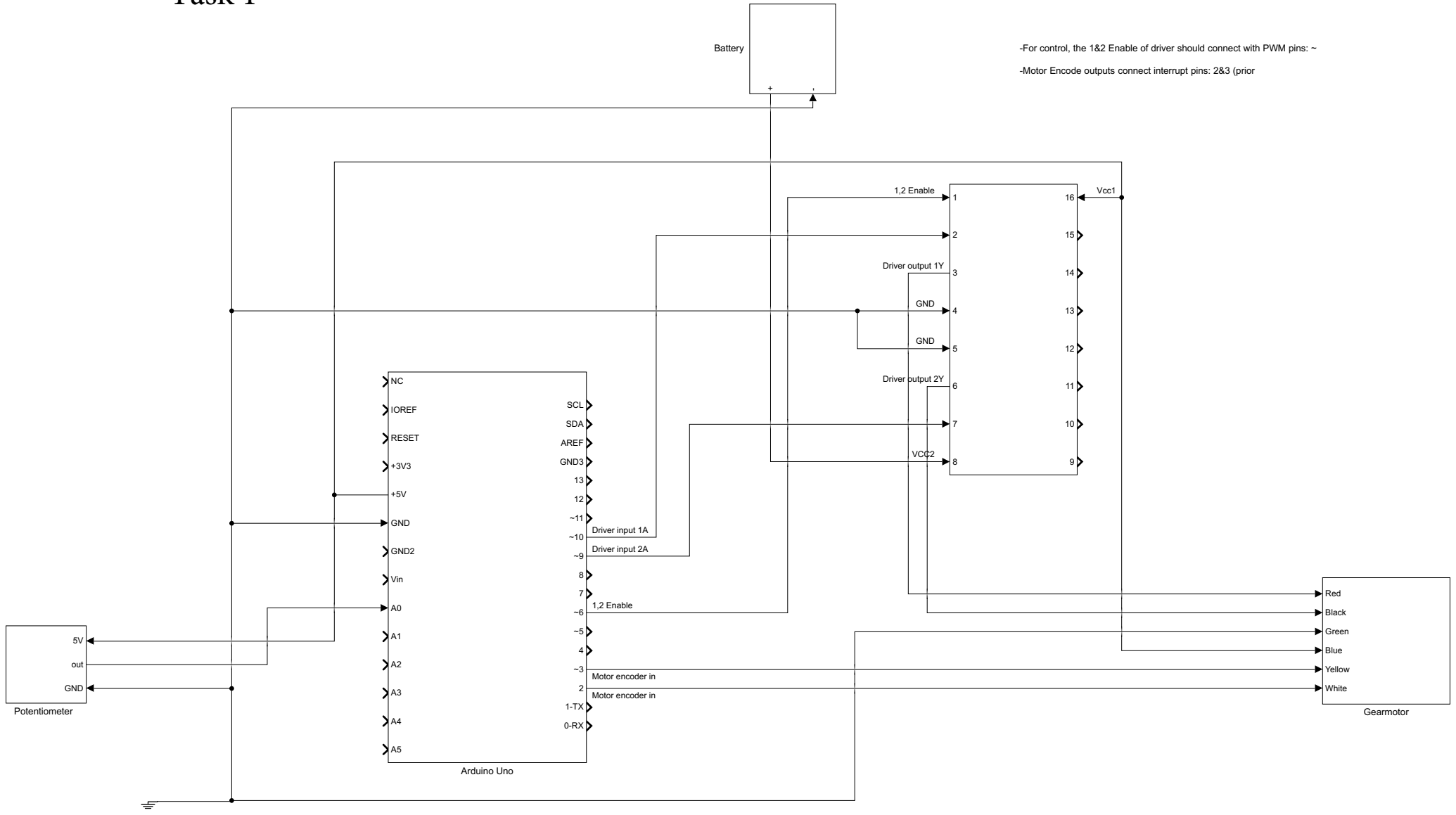# Circuit Diagram
Task 1

Battery

-For control, the 1&2 Enable of driver should connect with PWM pins: ~

-Motor Encode outputs connect interrupt pins: 2&3 (prior

1,2 Enable — 1	16 — Vcc1
2	15
Driver output 1Y — 3	14
GND — 4	13
GND — 5	12
Driver output 2Y — 6	11
7	10
VCC2 — 8	9

Arduino Uno

- NC
- IOREF
- RESET
- +3V3
- +5V
- GND
- GND2
- Vin
- A0
- A1
- A2
- A3
- A4
- A5

- SCL
- SDA
- AREF
- GND3
- 13
- 12
- ~11
- ~10 — Driver input 1A
- ~9 — Driver input 2A
- 8
- 7
- ~6 — 1,2 Enable
- ~5
- 4
- ~3 — Motor encoder in
- 2 — Motor encoder in
- 1-TX
- 0-RX

Potentiometer
- 5V
- out
- GND

Gearmotor
- Red
- Black
- Green
- Blue
- Yellow
- White