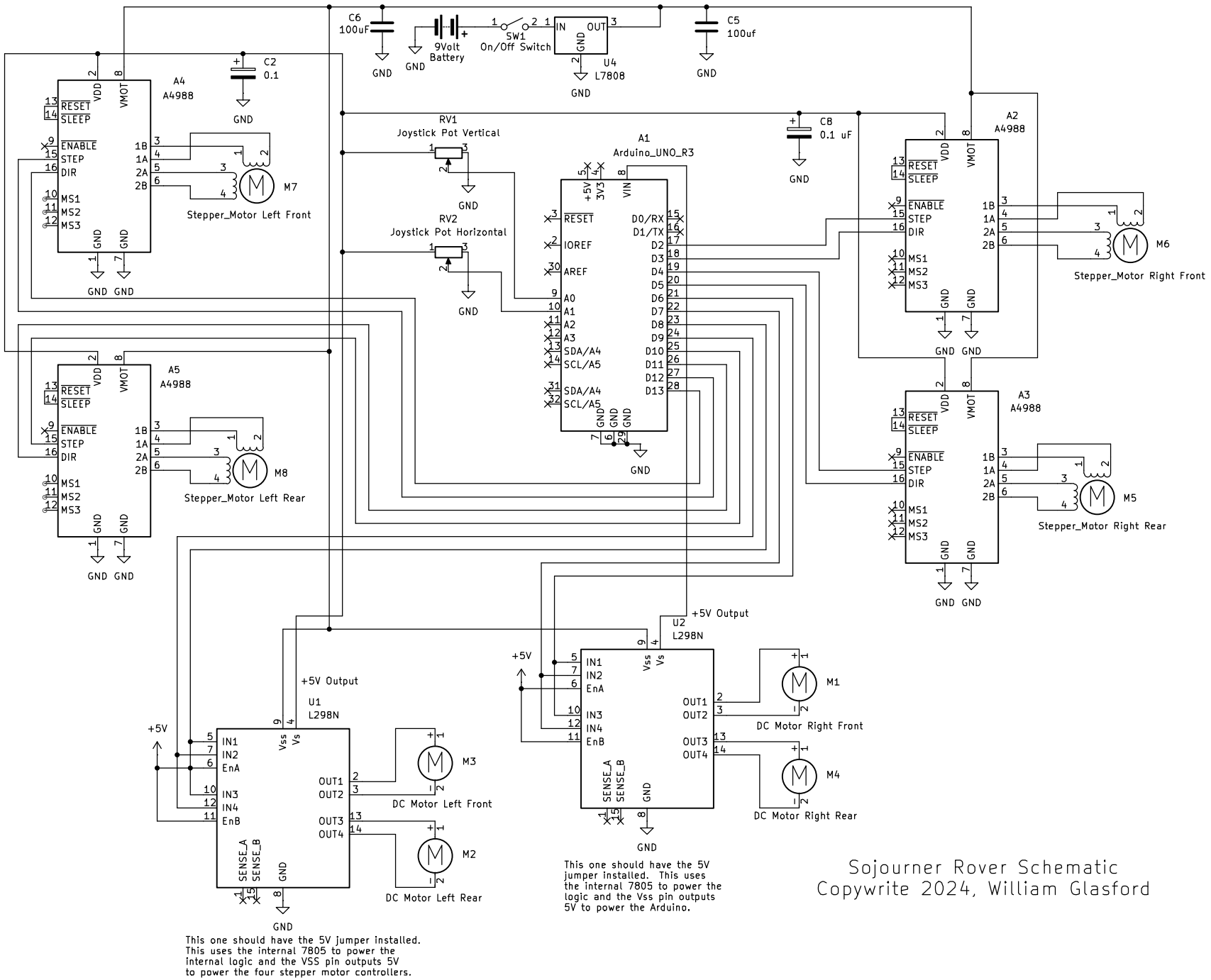
C6
100uF
GND
9Volt
Battery
GND
SW1
On/Off Switch
IN
OUT
GND
U4
L7808
GND
C5
100uf
GND
C2
0.1
GND
A4
A4988
VDD
VMOT
RESET
SLEEP
ENABLE
STEP
DIR
MS1
MS2
MS3
1B
1A
2A
2B
GND
GND
M7
Stepper_Motor Left Front
GND GND
RV1
Joystick Pot Vertical
GND
RV2
Joystick Pot Horizontal
GND
A1
Arduino_UNO_R3
+5V
3V3
VIN
RESET
IOREF
AREF
A0
A1
A2
A3
SDA/A4
SCL/A5
D0/RX
D1/TX
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
GND
GND
GND
C8
0.1 uF
GND
A2
A4988
M6
Stepper_Motor Right Front
GND GND
A5
A4988
M8
Stepper_Motor Left Rear
GND GND
A3
A4988
M5
Stepper_Motor Right Rear
GND GND
+5V Output
U2
L298N
+5V
IN1
IN2
EnA
IN3
IN4
EnB
Vss
Vs
OUT1
OUT2
OUT3
OUT4
SENSE_A
SENSE_B
GND
M1
DC Motor Right Front
M4
DC Motor Right Rear
GND
This one should have the 5V jumper installed. This uses the internal 7805 to power the logic and the Vss pin outputs 5V to power the Arduino.
+5V Output
U1
L298N
+5V
M3
DC Motor Left Front
M2
DC Motor Left Rear
GND
This one should have the 5V jumper installed. This uses the internal 7805 to power the internal logic and the VSS pin outputs 5V to power the four stepper motor controllers.
Sojourner Rover Schematic
Copywrite 2024, William Glasford