

# MOTOR DRIVERS FOR ARDUINO

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4TH YEAR, ELECTRONICS & COMMUNICATION ENGINEERING

# AGENDA

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What is a motor driver?

Familiarization with some motor drivers

Interfacing with Arduino

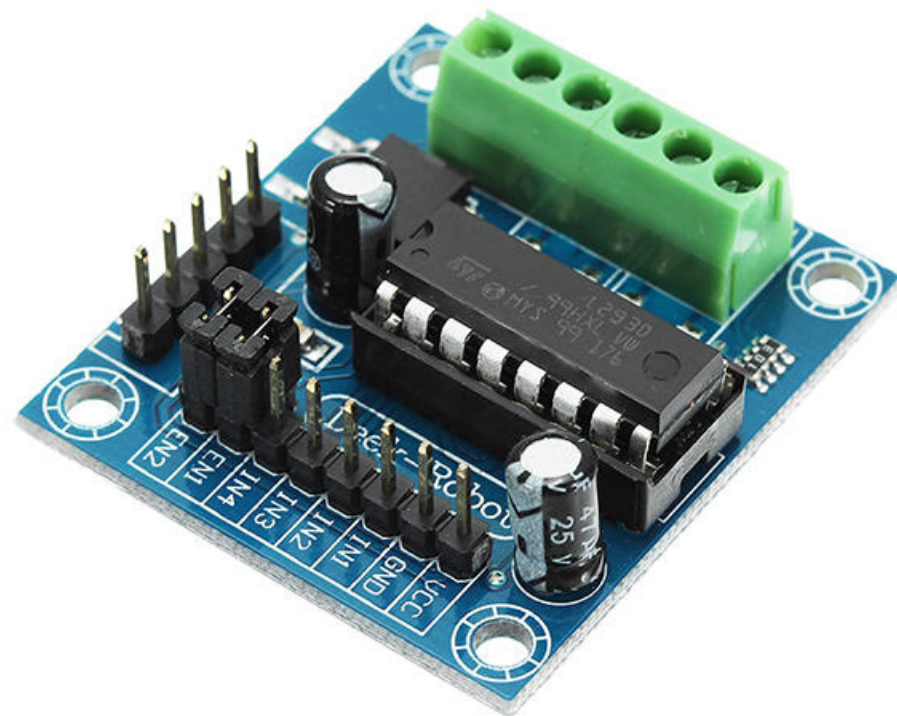
Demonstration of the circuit

# WHAT IS A MOTOR DRIVER

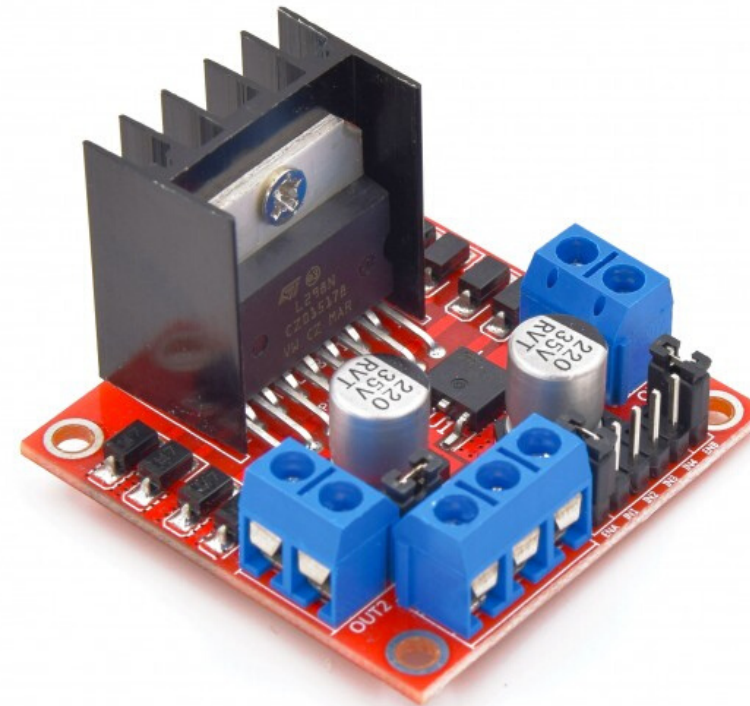
"Motor drivers are current amplifiers which accept low current signals from microcontrollers and convert it into a high current signal that helps to drive the motors."

# SOME WELL KNOWN MOTOR DRIVERS

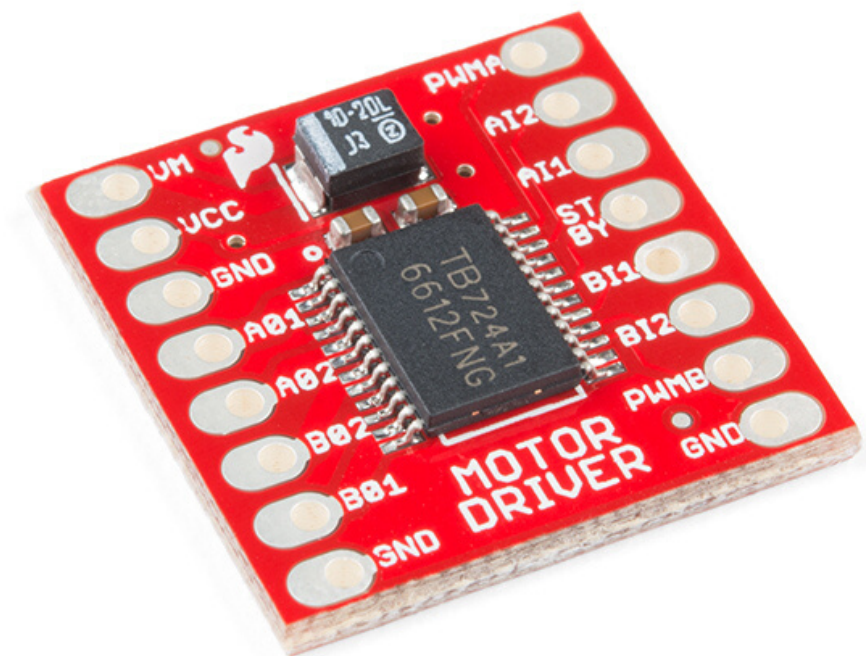
L293D



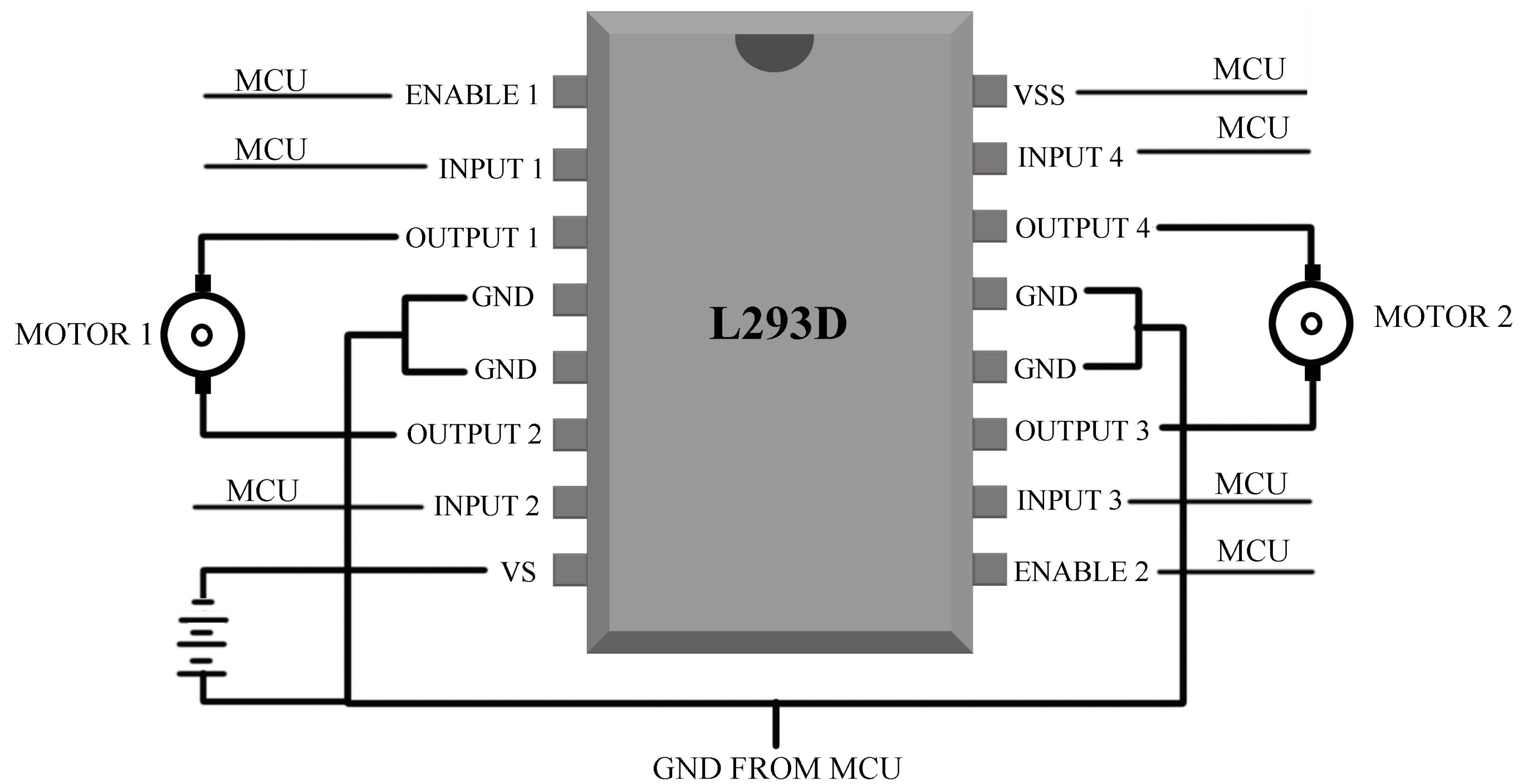
L298N



TB66



# L293D PINOUT



# MOTOR SPEED CHART

## Enable 1

8-bit PWM (0)  
8-bit PWM (64)  
8-bit PWM (128)  
8-bit PWM (192)  
8-bit PWM (256)

## Motor1 Speed

Stop  
25% Speed  
50% Speed  
75% Speed  
100% Speed

## Enable 2

8-bit PWM (0)  
8-bit PWM (64)  
8-bit PWM (128)  
8-bit PWM (192)  
8-bit PWM (256)

## Motor2 Speed

Stop  
25% Speed  
50% Speed  
75% Speed  
100% Speed

# MOTOR DIRECTION CHART

## Input 1

Low(0)  
High(1)  
Low(0)  
High(1)

## Input 2

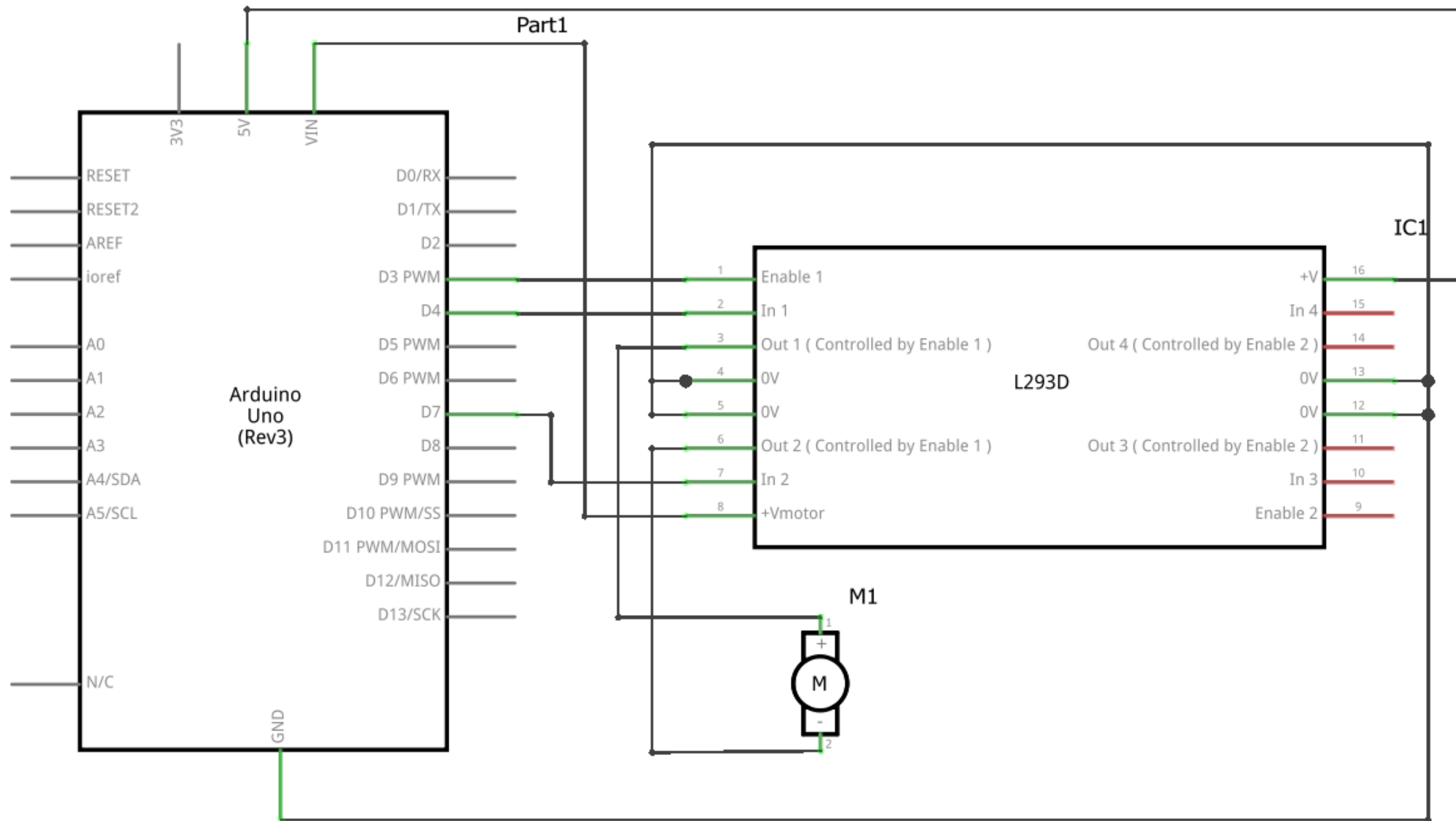
Low(0)  
Low(0)  
High(1)  
High(1)

## Motor Direction

Brake  
Forward  
Backward  
Brake



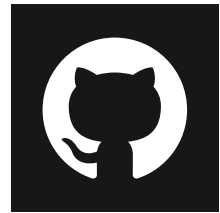
# ARDUINO INTERFACING CIRCUIT WITH L293D





# THANK YOU

CONNECTIONS



[github.com/forkbomb-666](https://github.com/forkbomb-666)



[@snehangshu\\_](https://twitter.com/snehangshu_)



[/in/snehangshu-bhattacharya-3891b5153/](https://www.linkedin.com/in/snehangshu-bhattacharya-3891b5153/)

