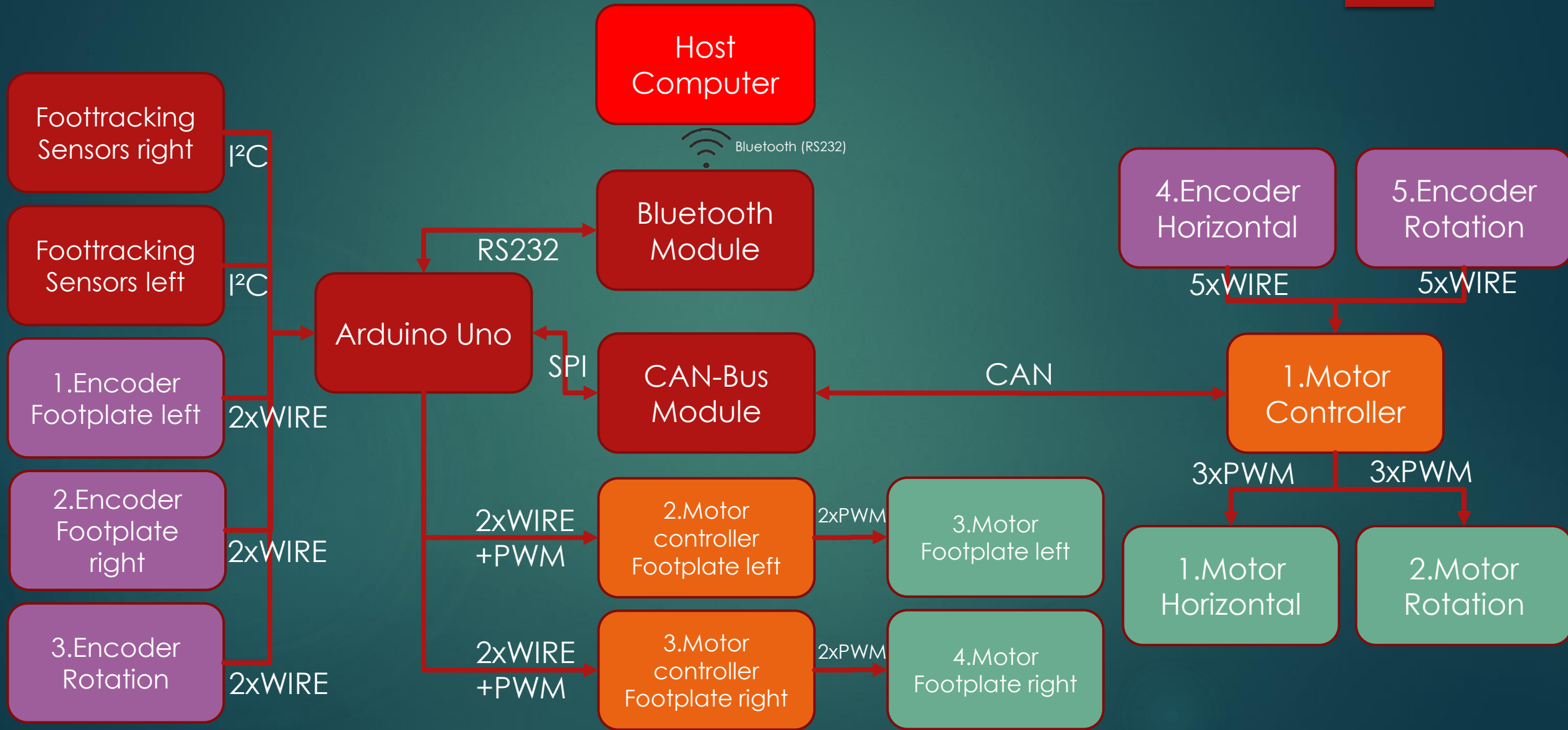




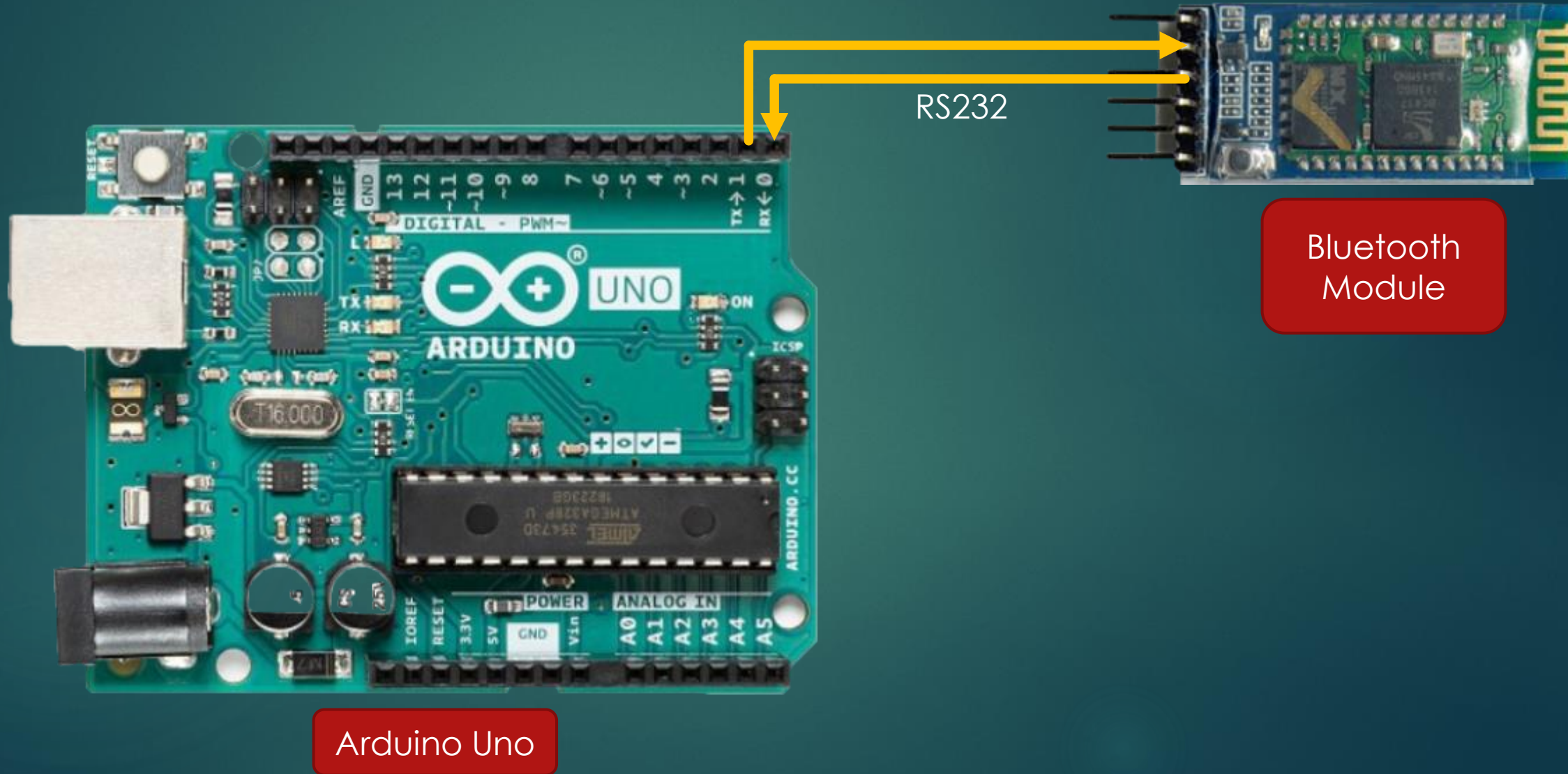
# VR-Crosswalk

COMMUNICATION BETWEEN EACH COMPONENT

# Communication Overview



# Arduino Uno – Bluetooth Module



# Bluetooth Module – Host Computer



Bluetooth  
Module



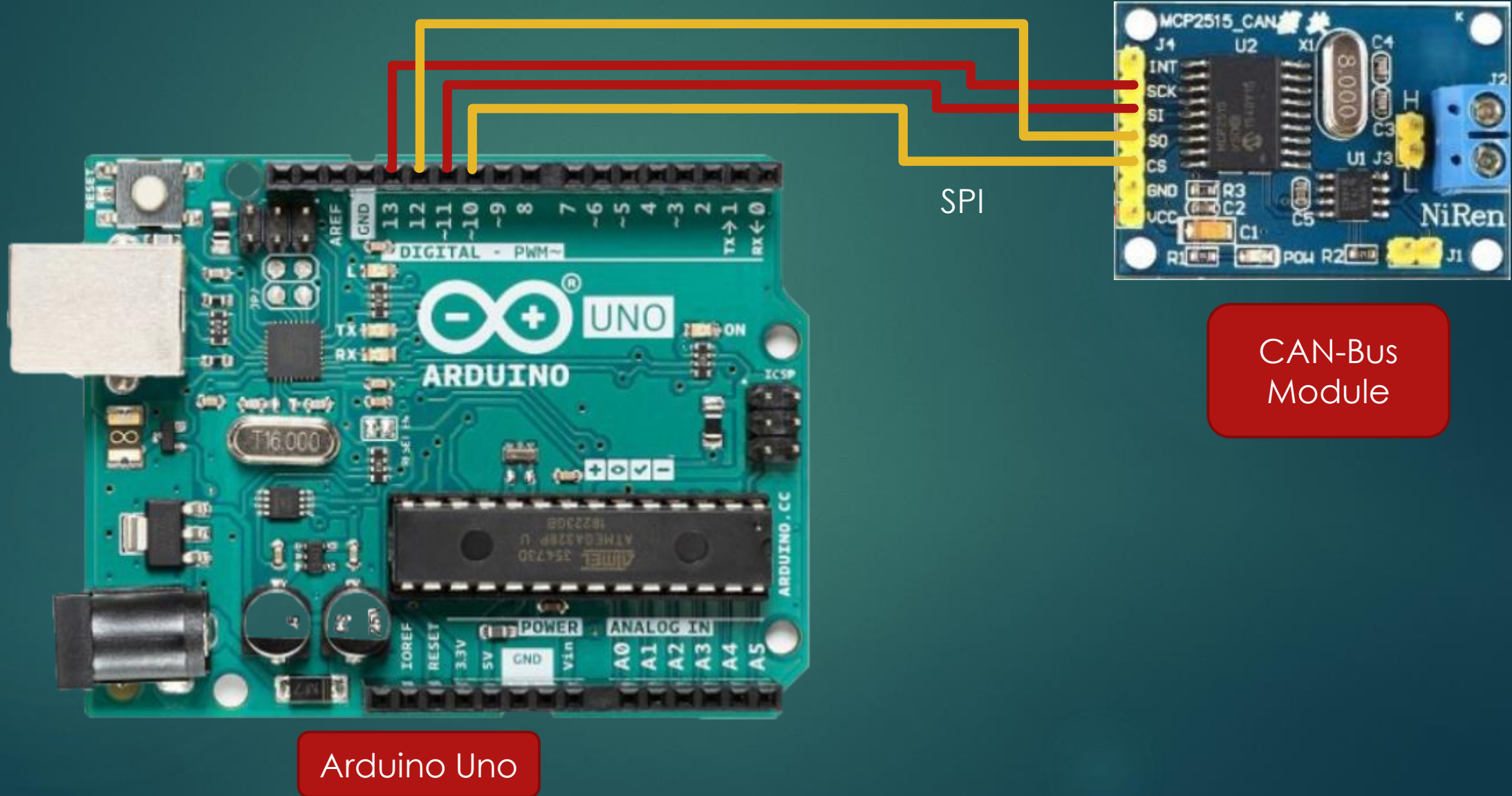
Bluetooth (RS232)



Host  
Computer



# Arduino Uno – CAN-Bus Module

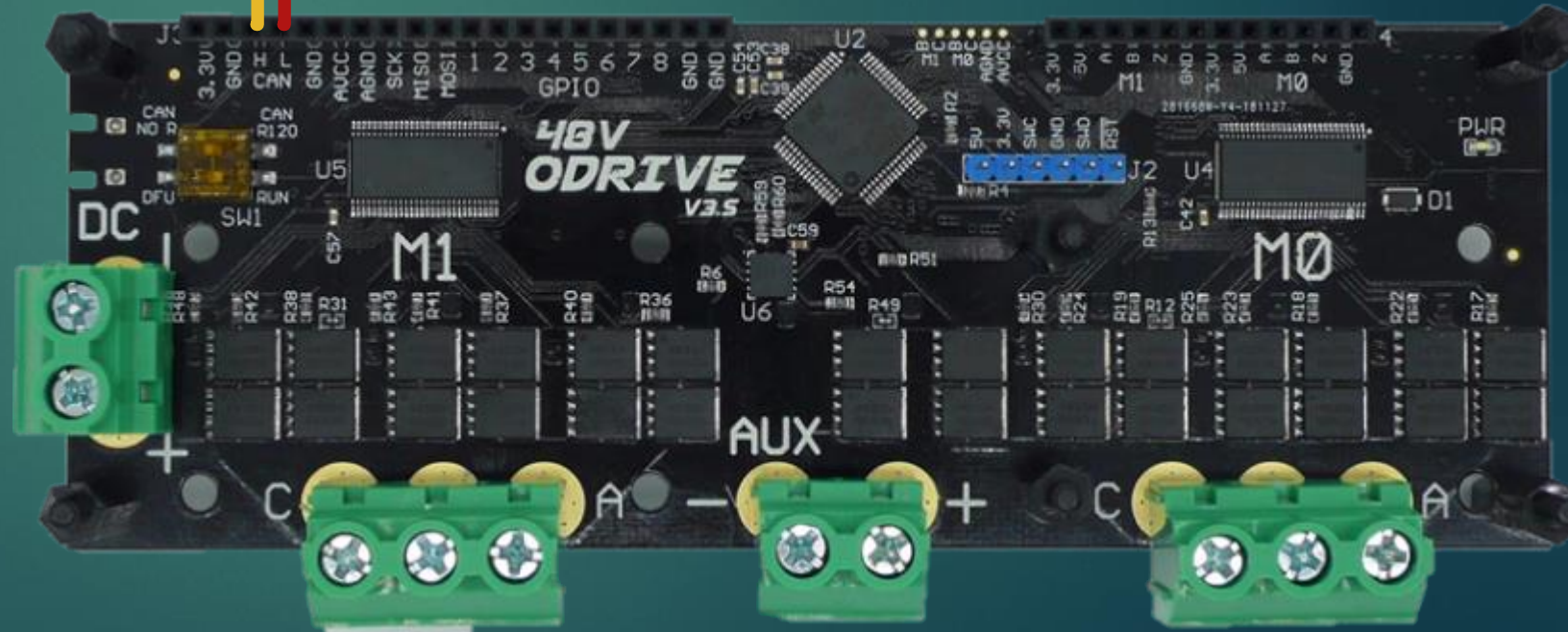


# CAN-Bus Module – 1.Motor Controller



CAN-Bus  
Module

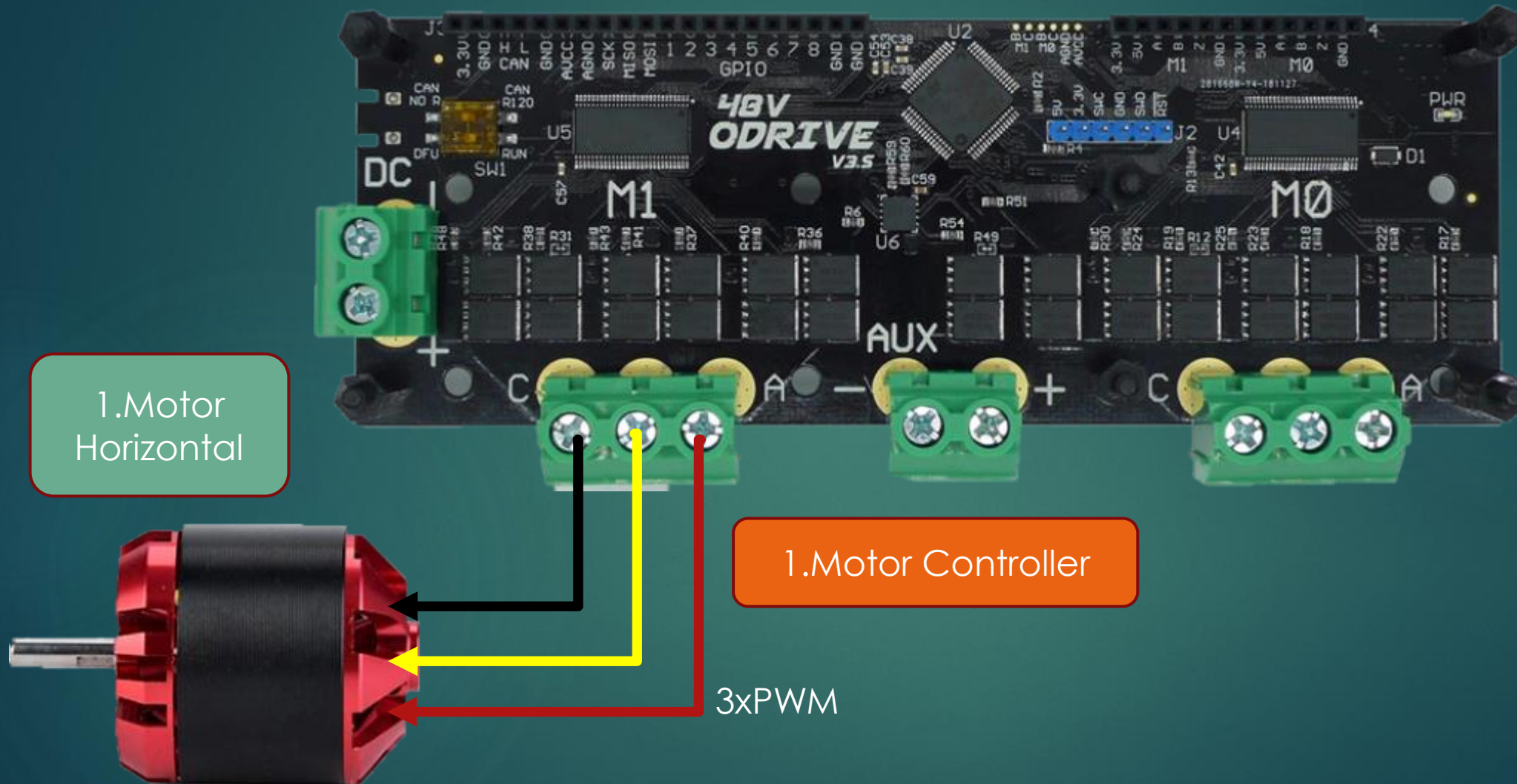
CAN



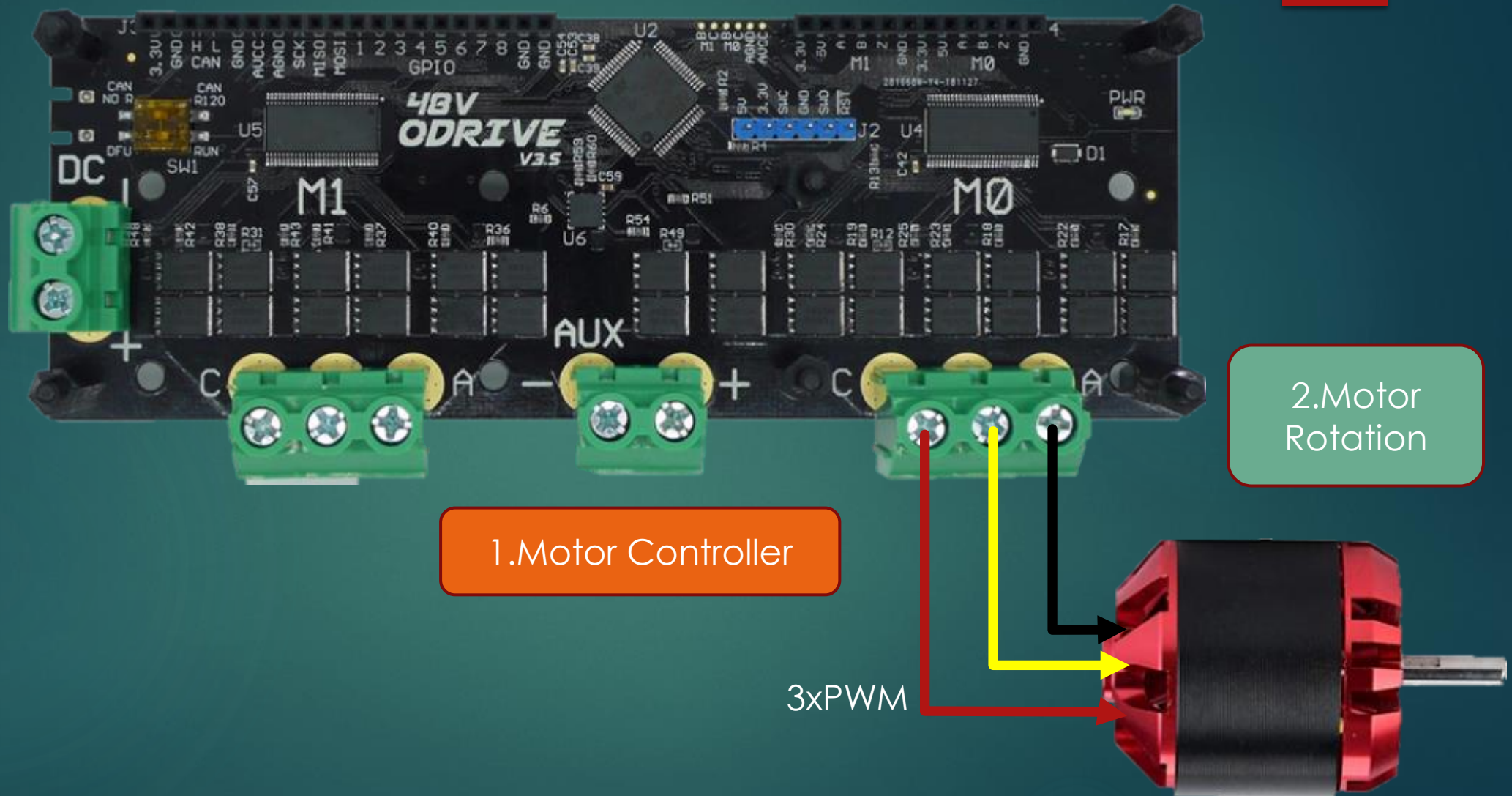
1.Motor Controller



# 1.Motor Controller – 1.Motor Horizontal



# 1.Motor Controller – 2.Motor Rotation



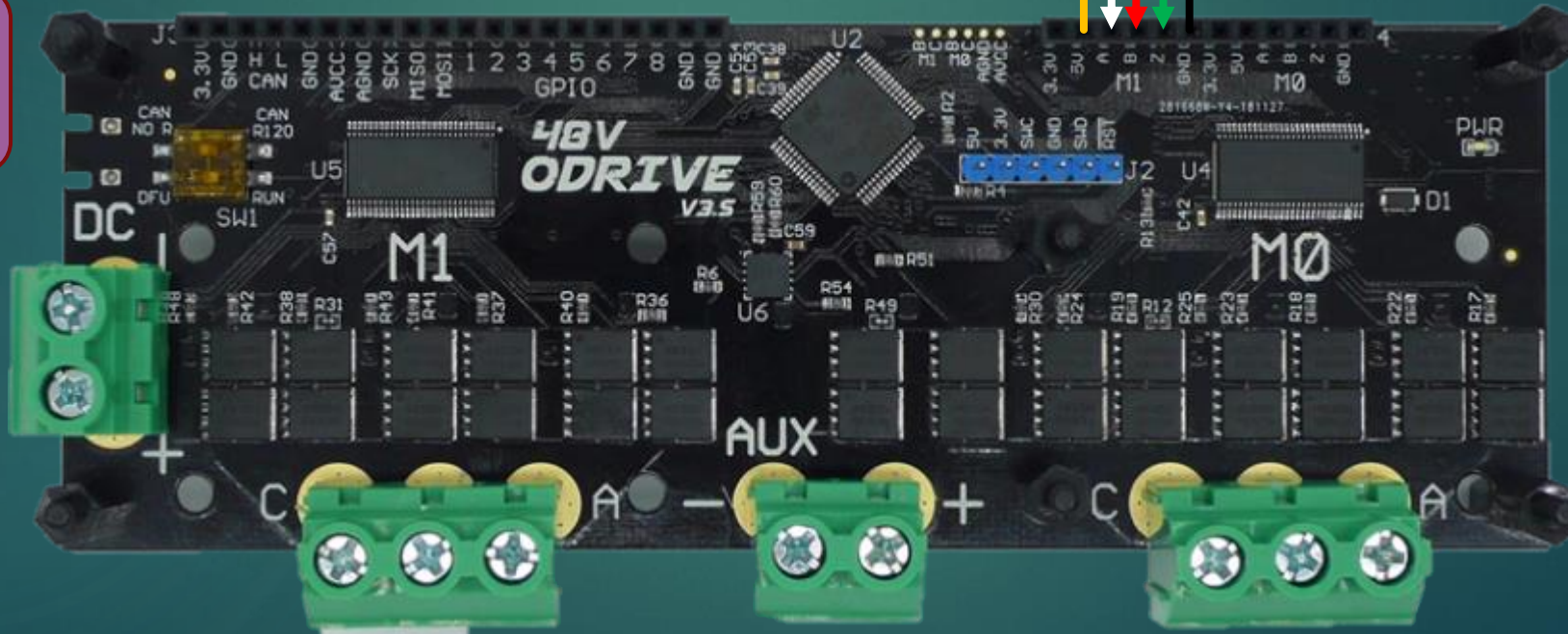


# 1.Motor Controller – 4.Encoder Horizontal



5xWIRE

4.Encoder  
Horizontal



1.Motor Controller

## on

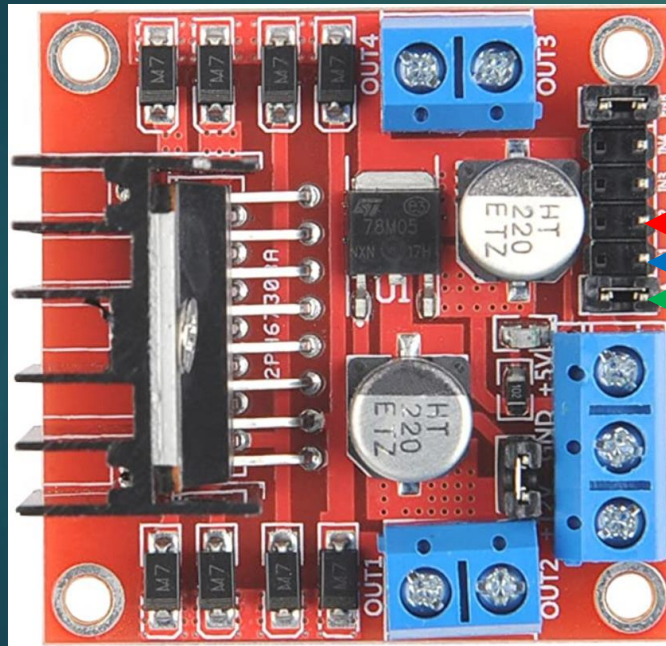


## 5. Encoder Rotation

## 1. Motor Controller



# Arduino Uno – 2.Motor controller Footplate left



2.Motor  
controller  
Footplate left

2xWIRE

PWM

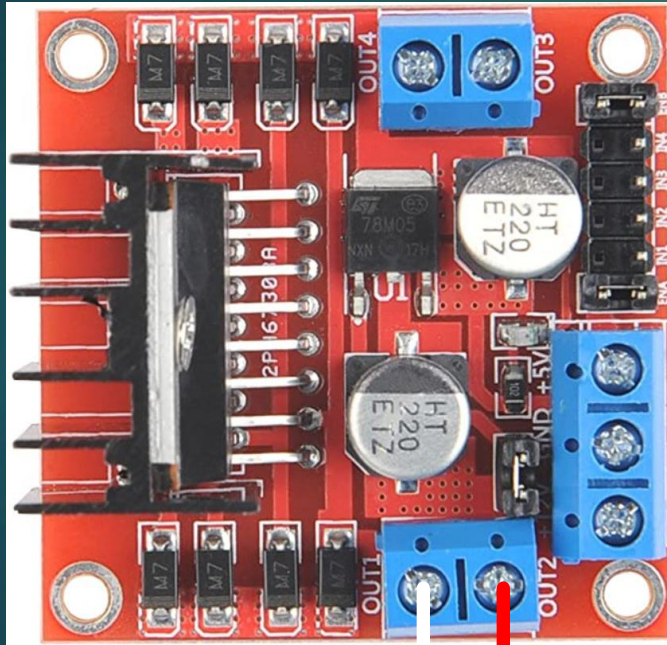


Arduino Uno

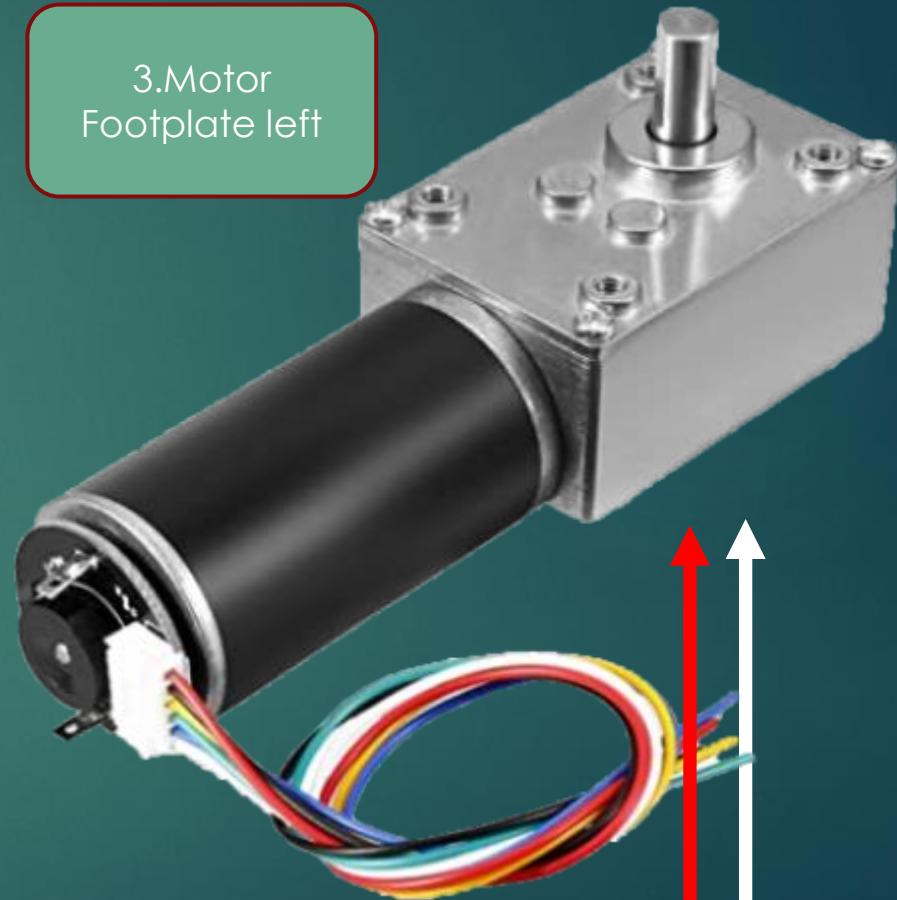


## 2. Motor controller Footplate left –

### 3. Motor Footplate left



2. Motor  
controller  
Footplate left



3. Motor  
Footplate left

2xPWM

# Arduino Uno – 1.Encoder Footplate left



1.Encoder  
Footplate left

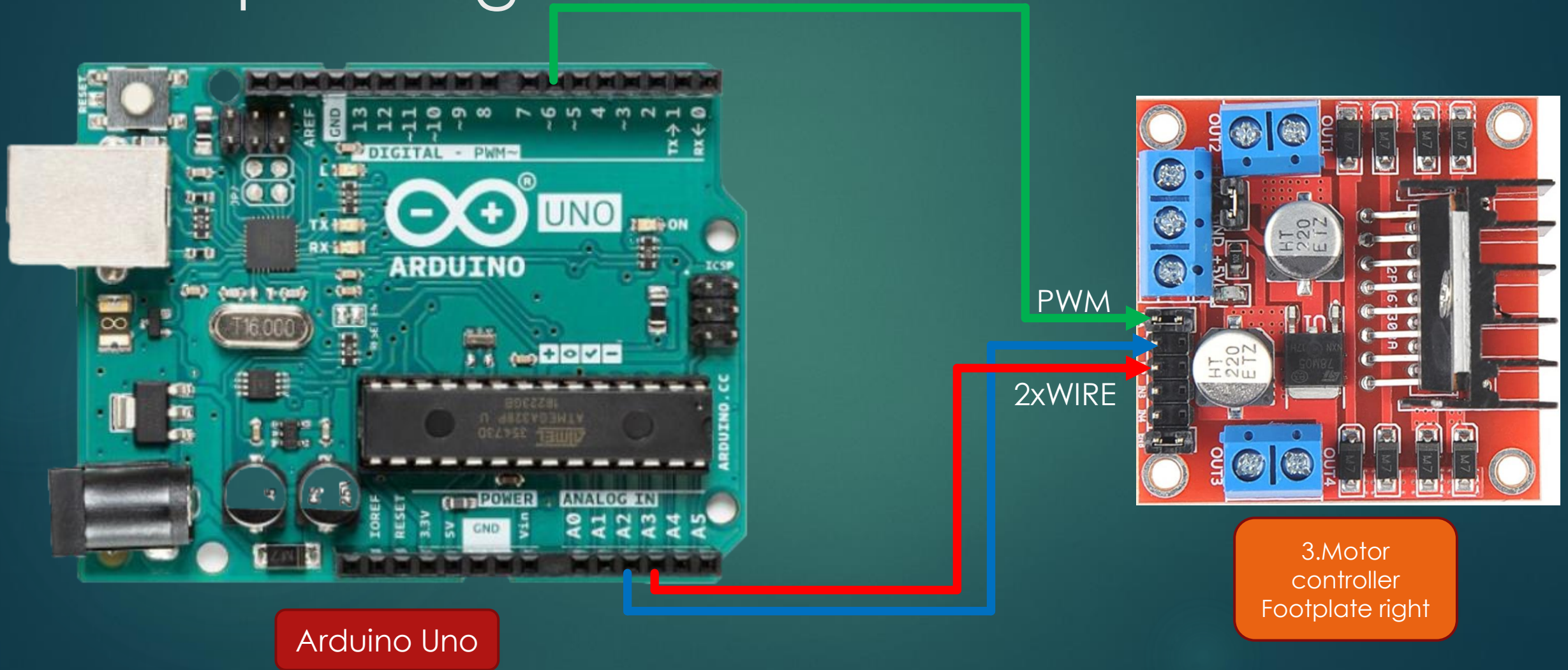
2xWIRE

Arduino Uno



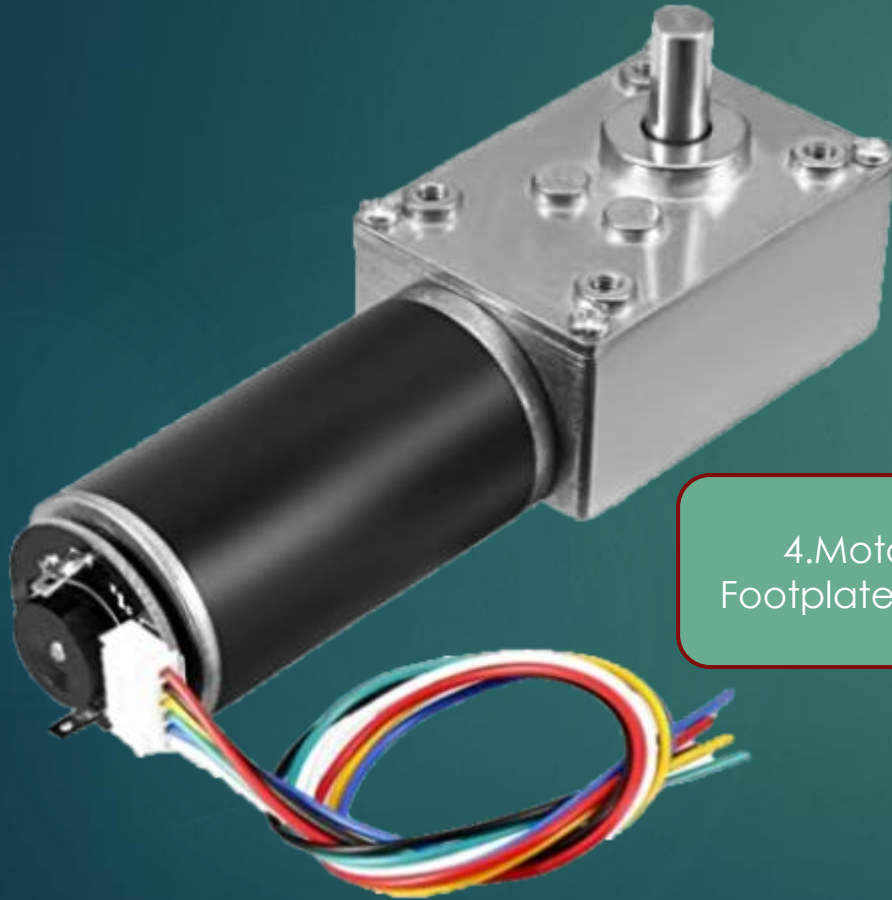


# Arduino Uno – 3.Motor controller Footplate right

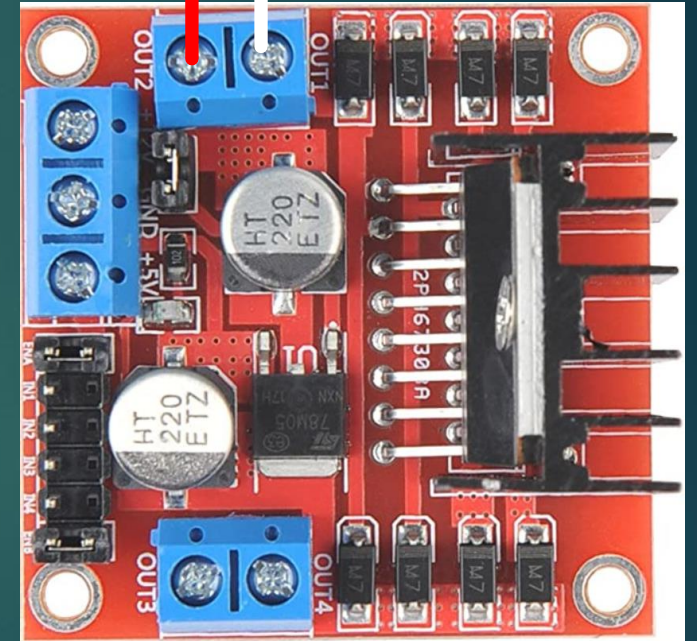




# 3. Motor controller Footplate right – 4. Motor Footplate right

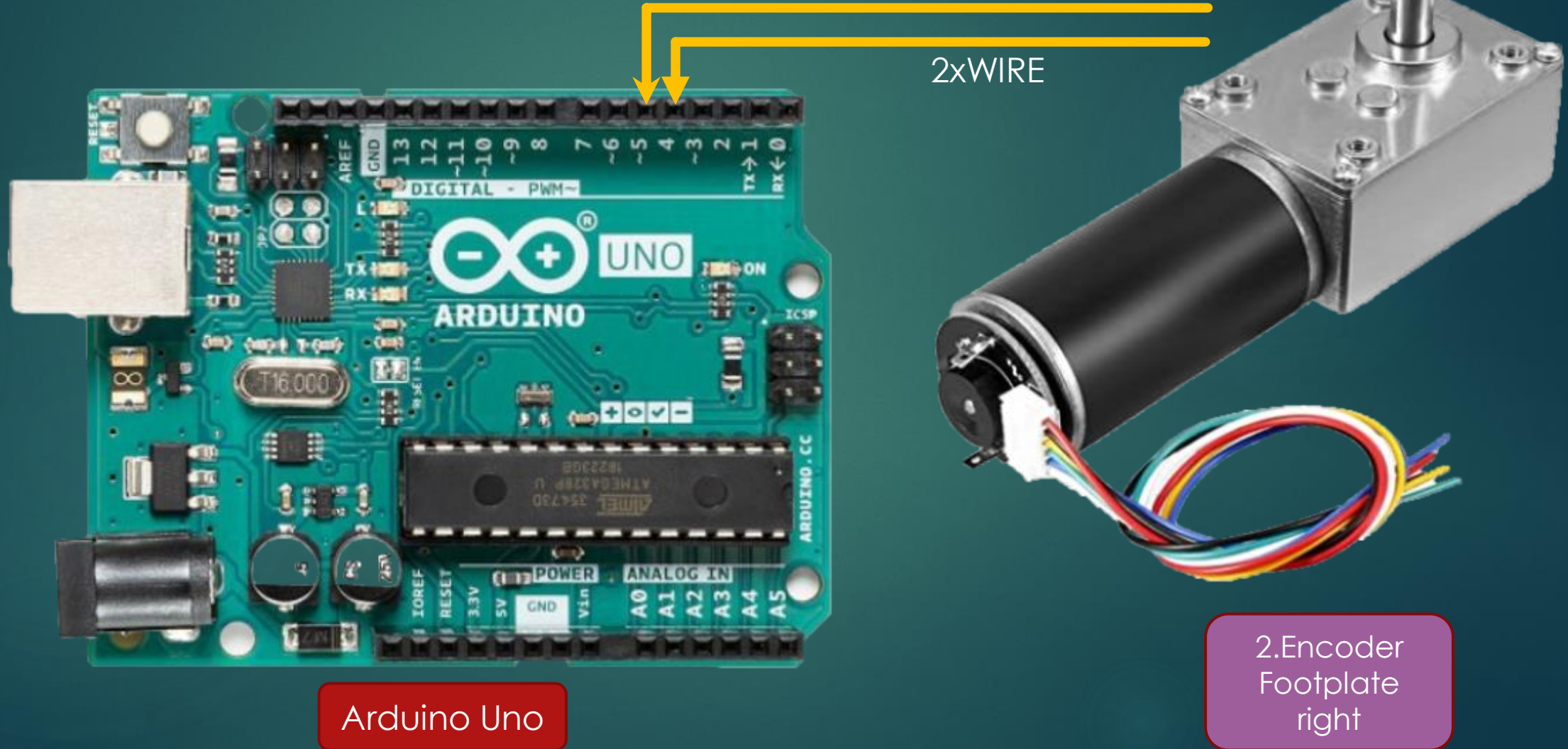


4. Motor  
Footplate right



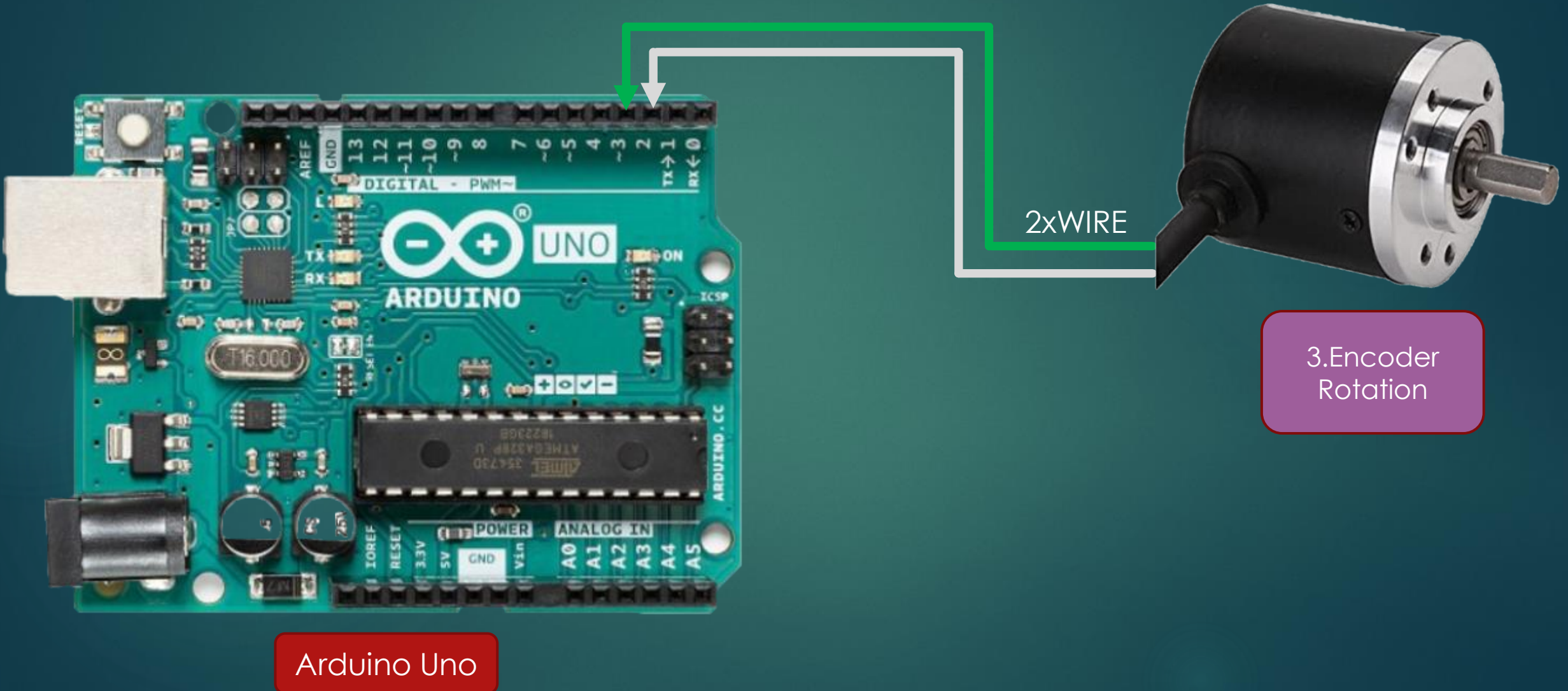
3. Motor  
controller  
Footplate right

# Arduino Uno – 2.Encoder Footplate right





# Arduino Uno – 3.Encoder Rotation



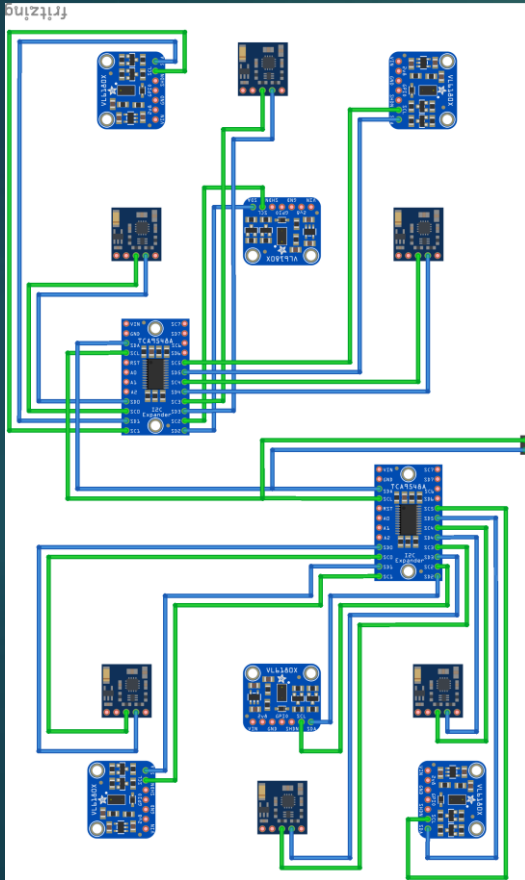


# Arduino Uno – Foottracking Sensors left

Arduino Uno

Foottracking  
Sensors left

I<sup>2</sup>C



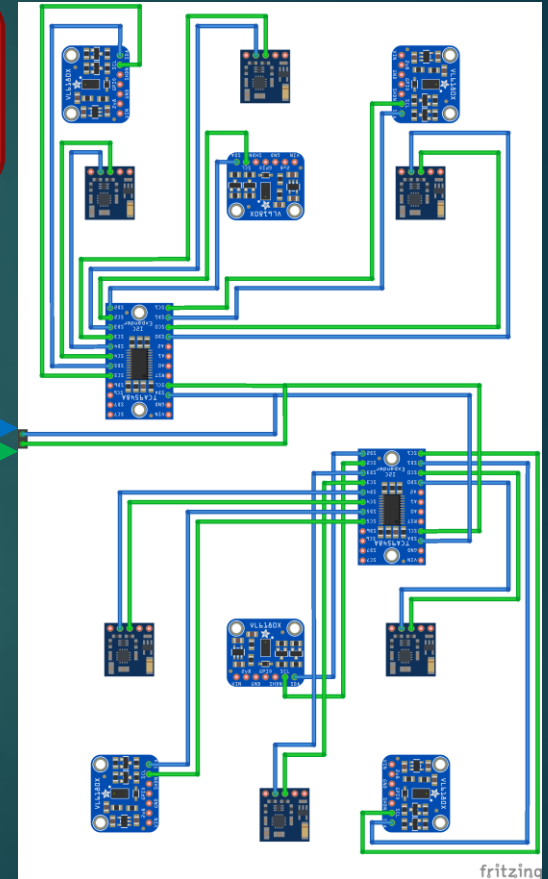
# Arduino Uno – Foottracking Sensors right

Arduino Uno



Foottracking  
Sensors right

I<sup>2</sup>C



fritzing



# Arduino Uno – PIN Overview

