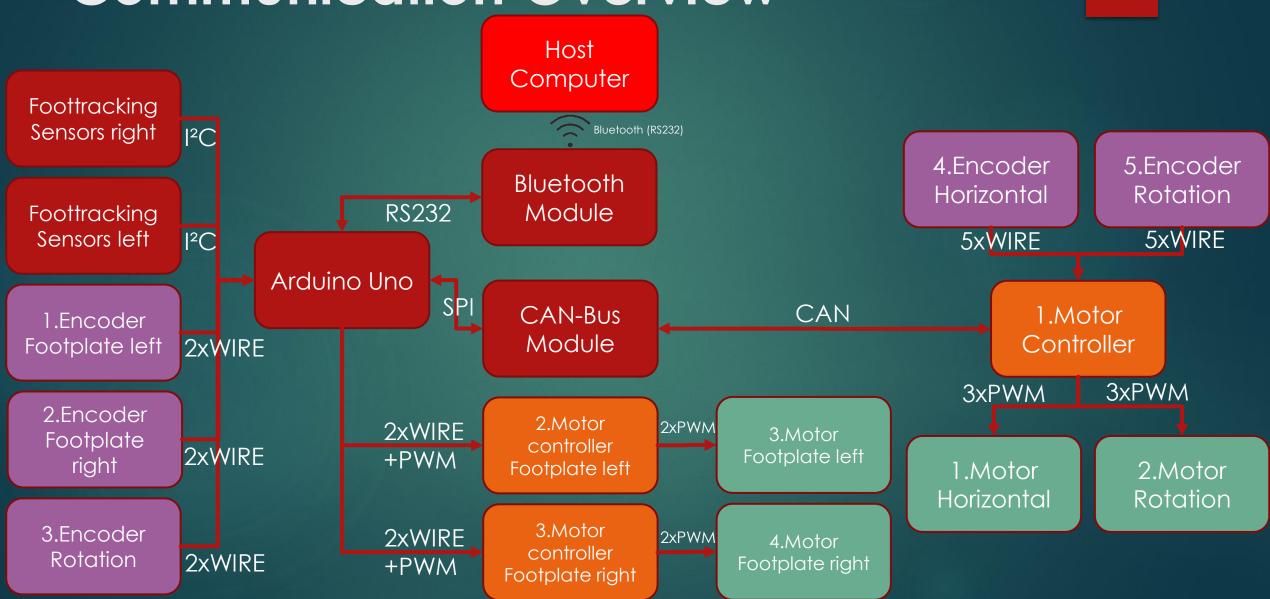
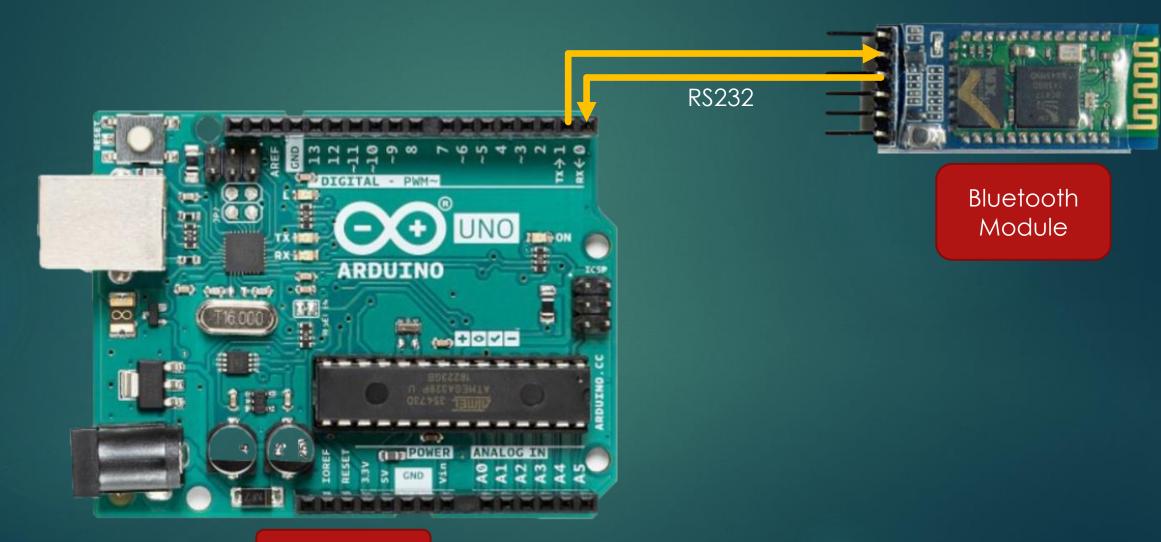
### VR-Crosswalk

COMMUNICATION BETWEEN EACH COMPONENT

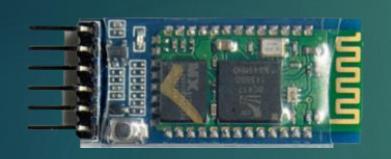
#### **Communication Overview**



#### Arduino Uno – Bluetooth Module



### Bluetooth Module – Host Computer



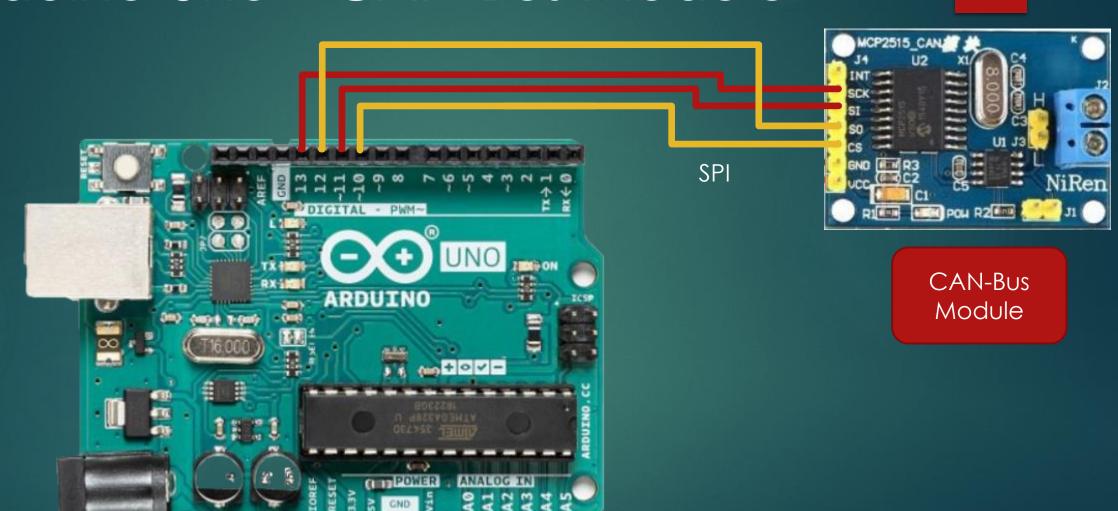
Bluetooth Module





Host Computer

#### Arduino Uno – CAN-Bus Module



#### CAN-Bus Module – 1.Motor Controller

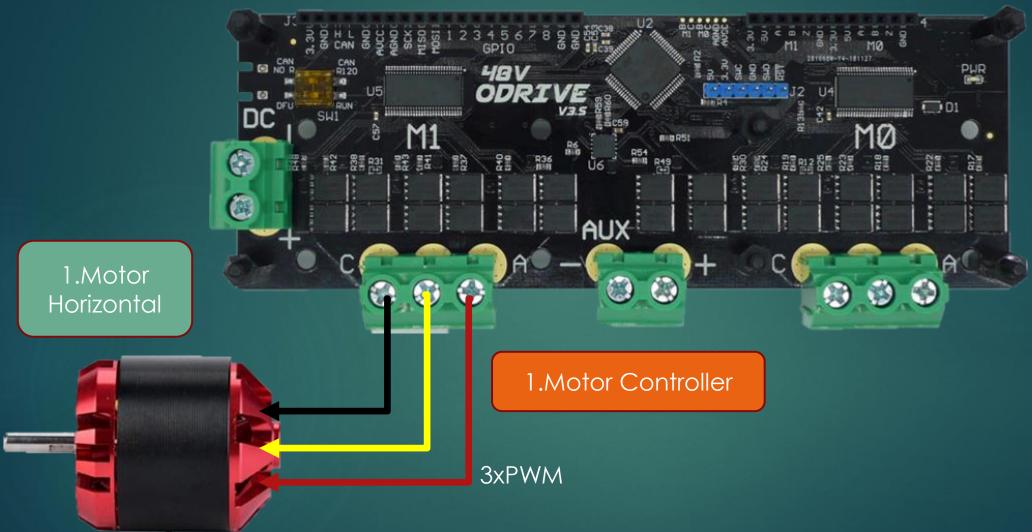


CAN-Bus Module

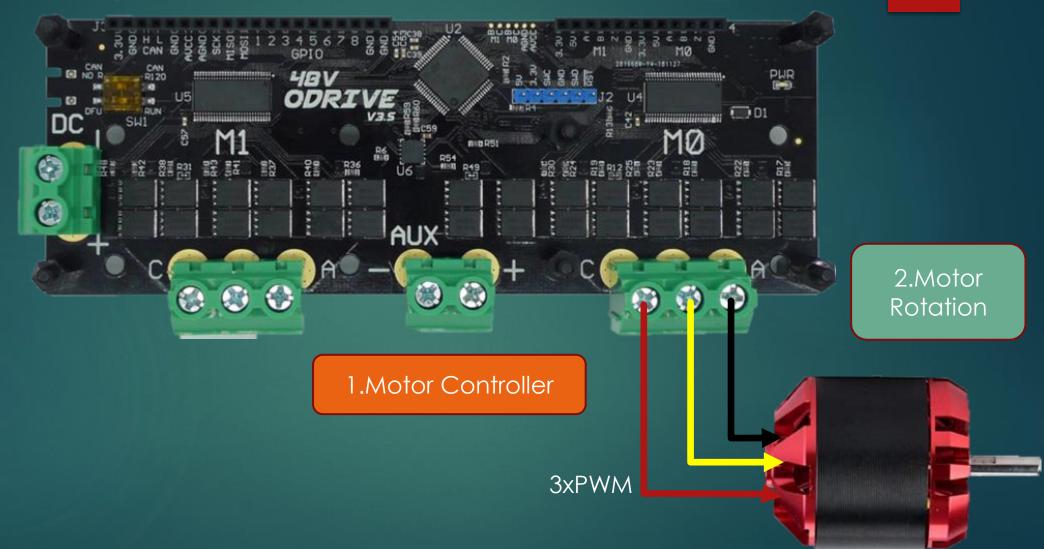


1.Motor Controller

#### 1.Motor Controller – 1.Motor Horizontal



#### 1.Motor Controller – 2.Motor Rotation

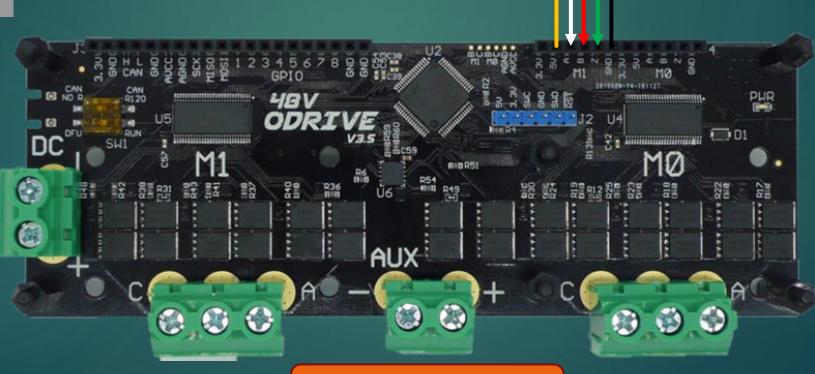


#### 1.Motor Controller – 4.Encoder Horizontal



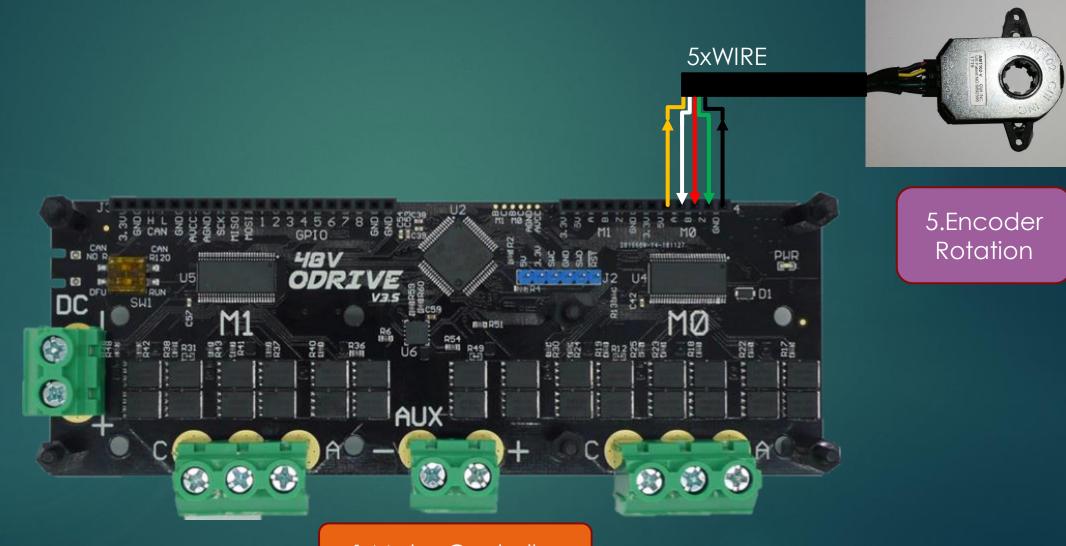
5xWIRE

4.Encoder Horizontal



1.Motor Controller

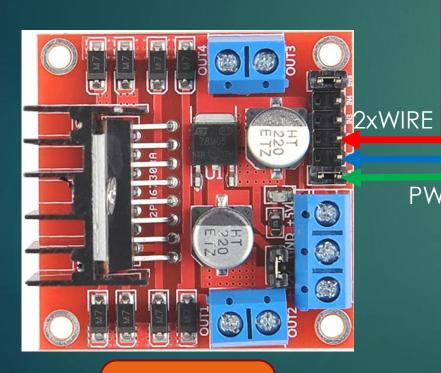
#### 1. Motor Controller – 5. Encoder Rotation



1.Motor Controller

Arduino Uno – 2. Motor controller

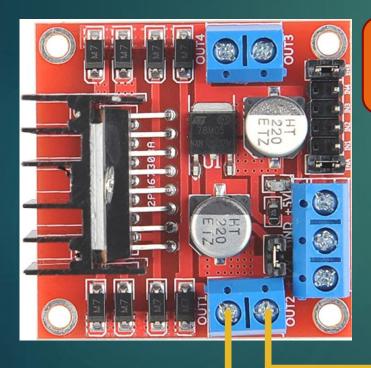
Footplate left



PWM

2.Motor controller Footplate left

2.Motor controller Footplate left – 3.Motor Footplate left



2.Motor controller Footplate left

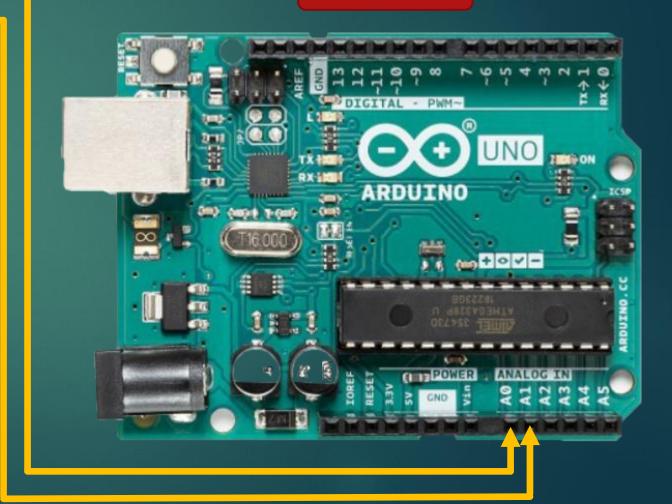


2xPWM

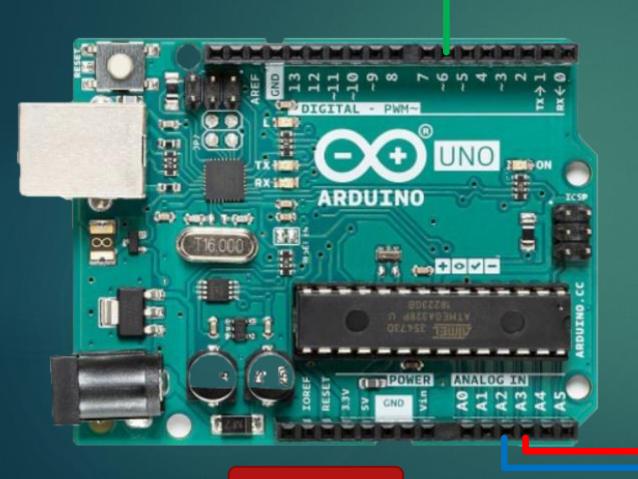
### Arduino Uno – 1.Encoder Footplate



2xWIRE



### Arduino Uno – 3. Motor controller Footplate right

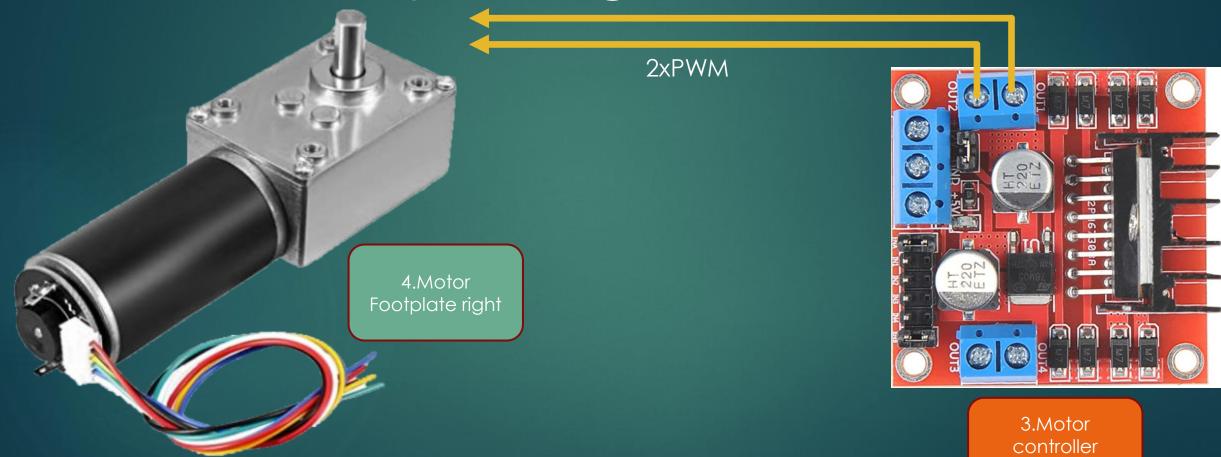


PWM

2xWIRE

3.Motor controller Footplate right

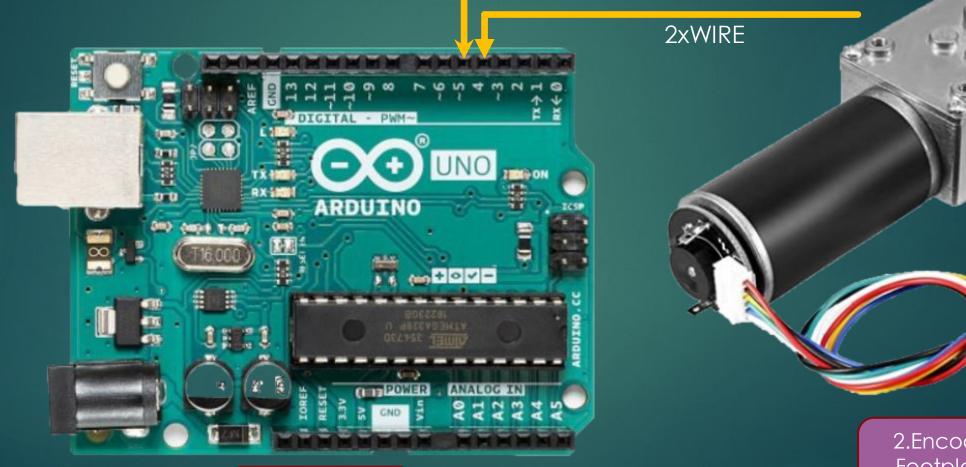
# 3. Motor controller Footplate right – 4. Motor Footplate right



Footplate right

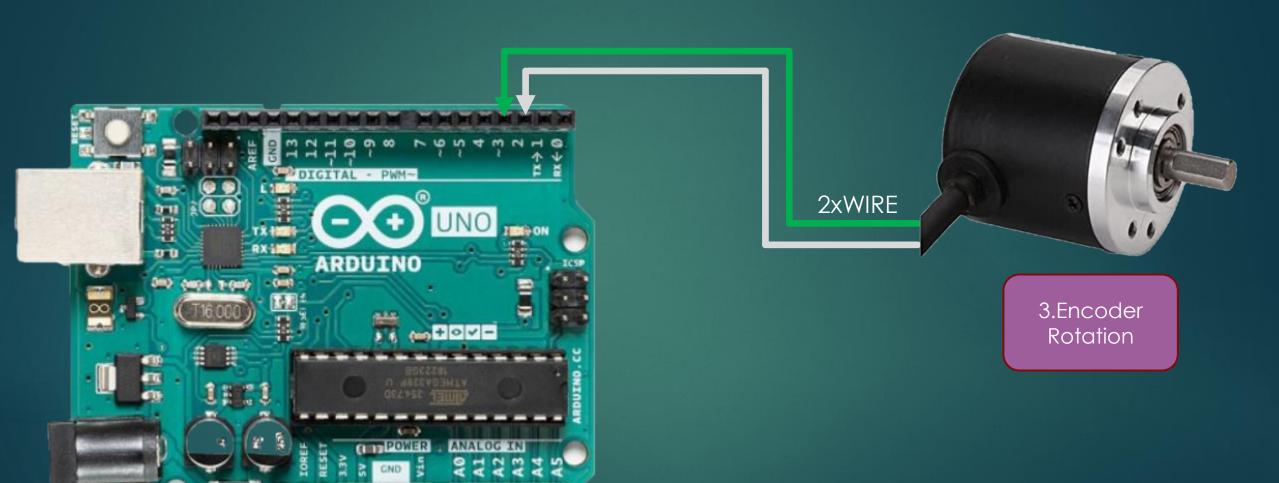
# Arduino Uno – 2.Encoder Footplate right

Arduino Uno

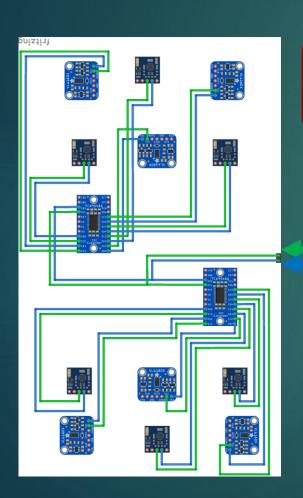


2.Encoder Footplate right

#### Arduino Uno – 3.Encoder Rotation

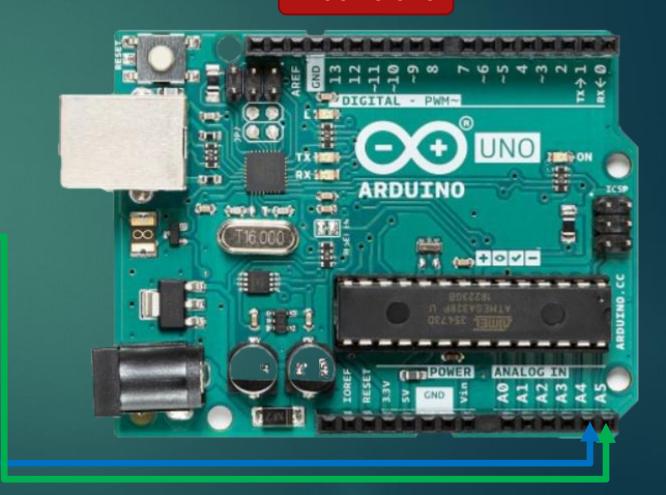


### Arduino Uno – Foottracking Sensors left



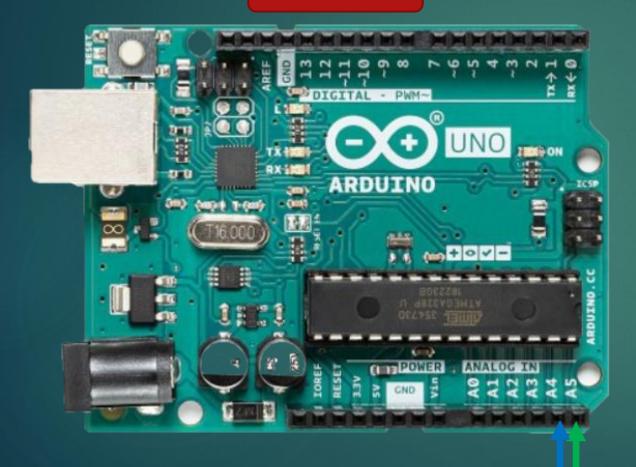
Foottracking Sensors left

I<sup>2</sup>C



# Arduino Uno – Foottracking Sensors right

Arduino Uno



Foottracking Sensors right I<sup>2</sup>C

#### Arduino Uno – PIN Overview

