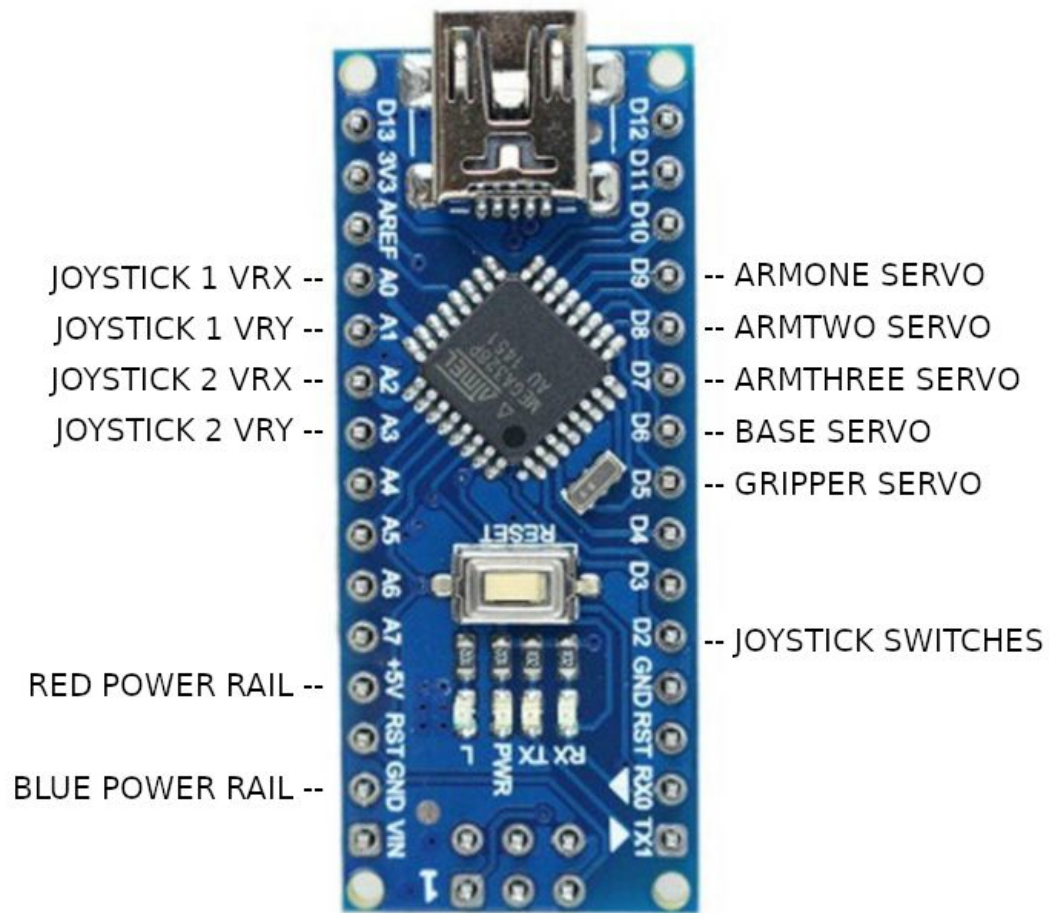
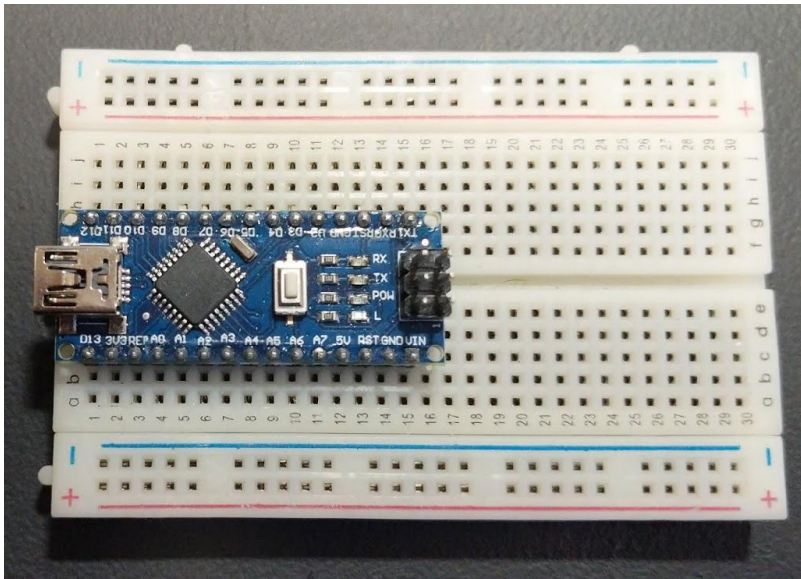


# MakersXD

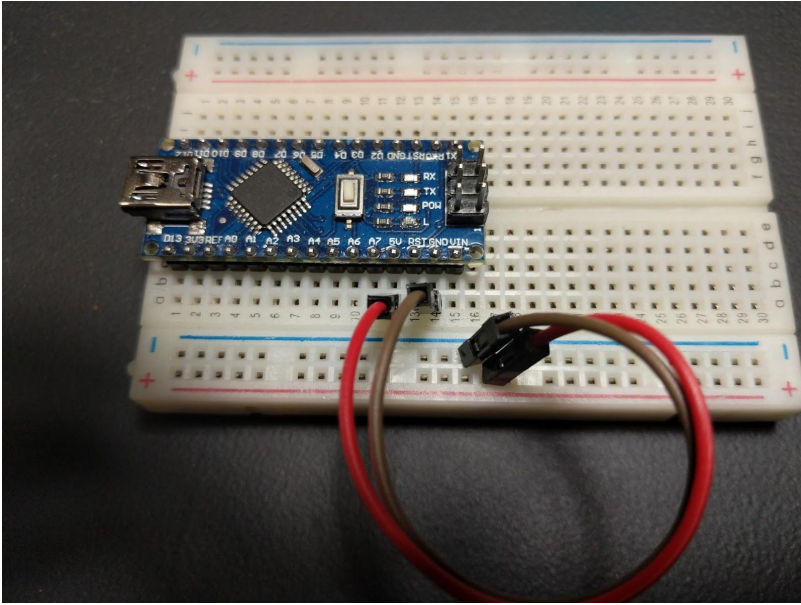
## Robot Arm Circuit Assembly Guide



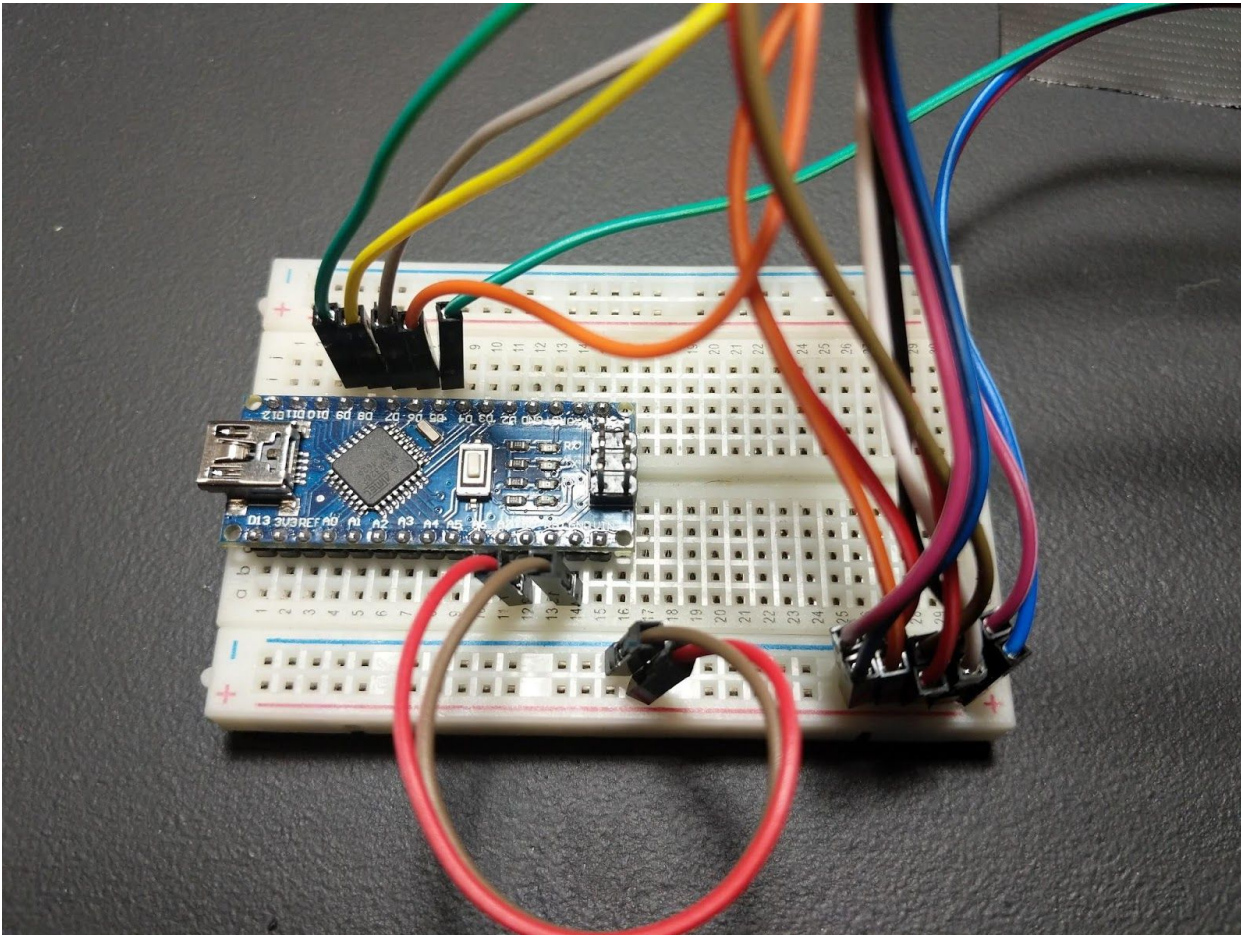
1. Start by placing the arduino in your breadboard



2. Next we add the jumpers that bring the 5V and GND out to the blue and red rails. Now any pin we connect to the blue rail is connected to the GND of the Arduino, and any pin we connect to the red rail is connected to the 5V pin of the Arduino. Now we have 24 nodes to connect our 5V and GND pins, rather than just two or three nodes.

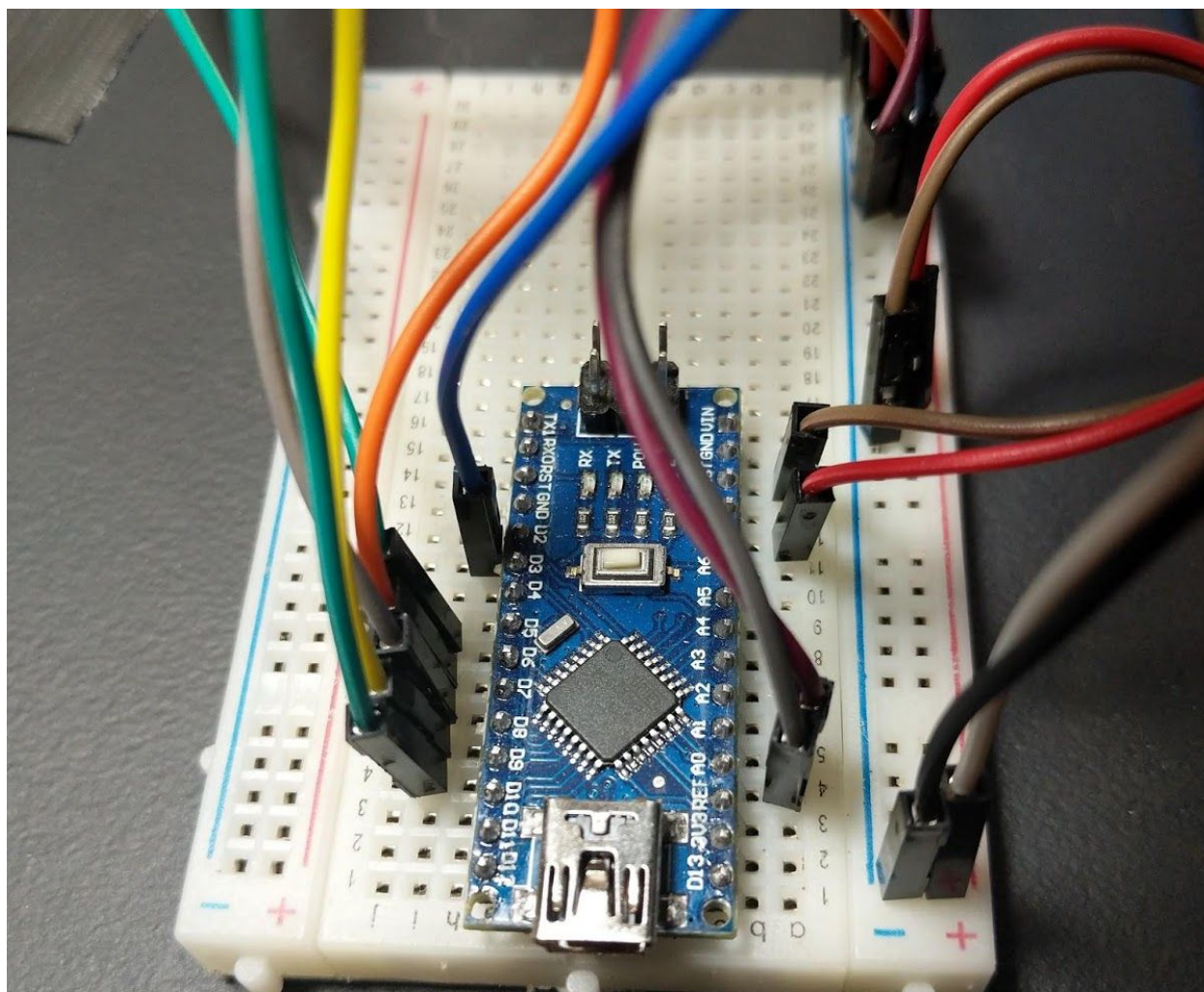
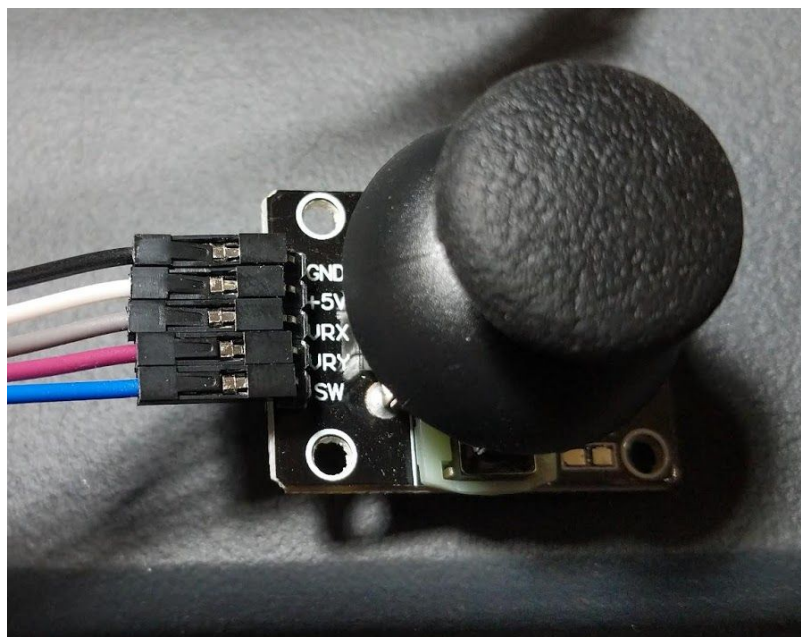


3. Next we add the five servo motors. From each servo: brown goes to the GND rail, red to the 5V rail and the orange lead to whichever pin that servo is connected to in our code. (Base is pin 5, arm1 is pin 9, arm2 is pin 8, arm3 is pin 7, and the gripper is pin 6)

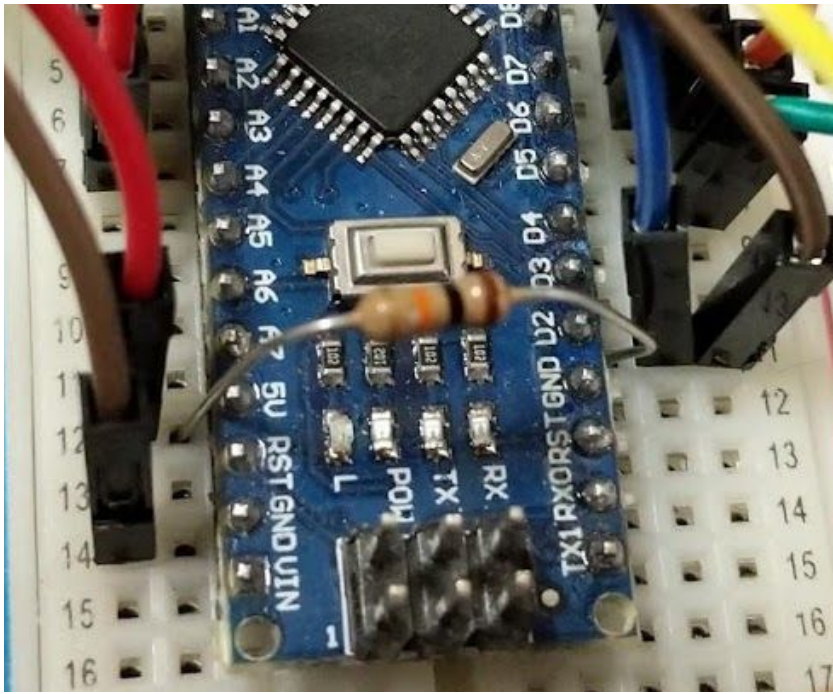




4. Next we add the two joysticks. GND and +5V will go to the blue and red power rails, respectively. VRX and VRY will go to A0 and A1 for joystick 1, and A2 and A3 for joystick



And finally, the pullup resistor between 5V and pin 2 on the arduino:



Upload the code from the Github to your arduino, and you should be controlling your robot arm with the joysticks!