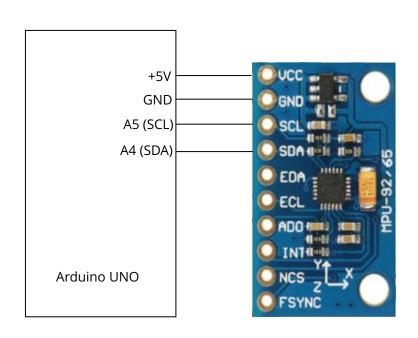
MPU9250 Arduino Example 01

```
#include "MPU9250.h"
// an MPU9250 object with the MPU-9250 sensor on
// I2C bus 0 with address 0x68
MPU9250 IMU(Wire,0x68);
int status;
void setup() {
 // serial to display data
 Serial.begin(115200);
 while(!Serial) {}
 // start communication with IMU
 status = IMU.begin();
 if (status < 0) {
  Serial.println("IMU initialization unsuccessful");
  Serial.println("Check IMU wiring or try cycling power");
  Serial.print("Status: ");
  Serial.println(status);
  while(1) {}
}
void loop() {
 // read the sensor
 IMU.readSensor();
 // display the data
 Serial.print("AccelX: ");
 Serial.print(IMU.getAccelX_mss(),6);
 Serial.print(" ");
 Serial.print("AccelY: ");
 Serial.print(IMU.getAccelY_mss(),6);
 Serial.print(" ");
 Serial.print("AccelZ: ");
 Serial.println(IMU.getAccelZ_mss(),6);
 Serial.print("GyroX: ");
 Serial.print(IMU.getGyroX_rads(),6);
 Serial.print(" ");
 Serial.print("GyroY: ");
 Serial.print(IMU.getGyroY_rads(),6);
 Serial.print(" ");
 Serial.print("GyroZ: ");
 Serial.println(IMU.getGyroZ_rads(),6);
 Serial.print("MagX: ");
 Serial.print(IMU.getMagX_uT(),6);
 Serial.print(" ");
 Serial.print("MagY: ");
 Serial.print(IMU.getMagY_uT(),6);
 Serial.print(" ");
 Serial.print("MagZ: ");
 Serial.println(IMU.getMagZ_uT(),6);
 Serial.print("Temperature in C: ");
 Serial.println(IMU.getTemperature_C(),6);
 Serial.println();
```

delay(200);

}



MPU9250 Resources

Article Website

http://robojax.com/learn/arduino/?vid=robojax-MPU9250

MPU9250 Library

https://github.com/bolderflight/MPU9250

Download Library from Robojax directly

http://robojax.com/learn/arduino/robojax-MPU9250-master.zip

MPU9250 Register Map

 $\underline{https://www.invensense.com/wp-content/uploads/2015/02/RM-MPU-9250A-00-v1.6.pdf}$