**Code for Load Cell**

float loadA = 0.125; // kg

int analogvalA = 200; // analog reading taken with load A on the load cell

float loadB = 0.218; // kg

int analogvalB = 600; // analog reading taken with load B on the load cell

float analogValueAverage = 0;

// How often do we do readings?

long time = 0; //

int timeBetweenReadings = 200;

void setup() {

Serial.begin(9600);

}

void loop() {

int analogValue;

while(1){

analogValue = analogRead(A0);

Serial.print("Analog :");

Serial.println(analogValue);

delay(200);

}

analogValueAverage = 0.99\*analogValueAverage + 0.01\*analogValue;

if(millis() > time + timeBetweenReadings){

float load = analogToLoad(analogValueAverage);

//Serial.print("analogValue: ");Serial.println(analogValueAverage);

Serial.print(" load: ");Serial.println(load-0.155,5);

time = millis();

delay(200);

}

}

float analogToLoad(float analogval){

// using a custom map-function, because the standard arduino map function only uses int

float load = mapfloat(analogval, analogvalA, analogvalB, loadA, loadB);

return load;

}

float mapfloat(float x, float in\_min, float in\_max, float out\_min, float out\_max)

{

return (x - in\_min) \* (out\_max - out\_min) / (in\_max - in\_min) + out\_min;

}