

# Setzerocurrent

מחזיר `Getzerocurent ->zerocurrentvalue`  
משתנה

שומר את משתנה `Readcurrent->getcurrent`  
לאחר קראיה לפונקציה

מדפיס אותו לאחר `Printcurrent -> getcurrent`  
קראיה לפונקציה

## Fonction getcurrent

```
float Robojax_WCS::getCurrent()
{
    //robojax.com WCS Current Measurement for Arduino

    float averageSensorValue =0;
    int sensorValue ;
    float voltage, current;

    for(int i=0; i< _iteration; i++)
    {
        sensorValue = analogRead(_vin);
        //Serial.print("S:");Serial.println(sensorValue);
        delay(2);

        voltage = (sensorValue) * (_voltageReference / (pow(2,_bitResolution)-1)) -(_quiescent_Output_voltage[_model] * _voltageReference) +
        _correctionValue ;
        //Serial.print("V:");Serial.println(voltage);
        current = voltage / _sensitivity[_model] ;

        averageSensorValue += current;

    }

    averageSensorValue /=_iteration;
    if(_zeroCurrentSet)
    {
        averageSensorValue -=_zeroCurrentValue;//subtract the zero current value
    }

    return   averageSensorValue;
}//getCurrent()
```

## Fonction setzerocurrent

```
void Robojax_WCS::setZeroCurrent()
{
    _zeroCurrentValue=getCurrent();
    _zeroCurrentSet =true;
```