Bilag 6 - Arduino-Koden

```
#include <SPI.h>
#include <TimerOne.h>

const long BAUD_RATE = 38400;
const long tSampleInMicros = 10000; // Sample time in microseconds
SPISettings settings(8000000, MSBFIRST, SPI_MODE0);


void setup() {
SPI.begin();
Serial.begin(BAUD_RATE); // Initialiserer seriel kommunikation med PC'en
SPI.beginTransaction(settings);
pinMode(10, OUTPUT);
digitalWrite(10, HIGH);
Timer1.initialize(tSampleInMicros); // initialize timer1, and set the period
Timer1.attachInterrupt(measureAndSend); // attaches callback() as a timer overflow
interrupt
}

int getEKGADC()
{
digitalWrite(10, LOW);
int result = SPI.transfer16(0x00);
digitalWrite(10, HIGH);
return result;
}

void loop() {

}

void measureAndSend()
{
int adcValue = getEKGADC(); // Udfører AD-konvertering
Serial.println(adcValue); // Sender data til PC'en
}
```