```
** * EJUCICIO DAC FER X * *
                                              tm ADC = 200 K
  Core = 61 Mhz
                        fm = 11914 Hz
                               T= 1 = 83,93 us
          ( PR+1) (MR+1)
  T = 1
     61M
            PR=0
  M = 5119 - 2560
                         para compler la fm de 11914Hz
 Timer para el minuto
 60s = 1 (PR+1) (MB+1)
                                 MB = 3659999999 -> Para que pase
                                                                     1 min
        61M PR=0
 (odigo:
           "LPC 17 XX . h"
"Ipc 17 XX . adc . h"
# include
 # include
            " Ipc 19xx _ pinsel . h"
 # include
       set_adc (void);
 Void
 Yord
       set _ +mro (vold);
 Vold
        set tmR1 (void);
 Vold
        set _ pin (vold) ;
 int main () {
      set_bin ();
      Set_timer 0 ();
       set time (11);
       Set _ ADC ();
       ADC_Start Cmd (LPC. ADC, ADC_ START_ON_MATO1);
      set_adc (void) {
void
 ADC_ Ini+ (LPC-ADC, 200000);
 ADC_Channel Cmd (LPC_ADC, ADC_CHANNEL_O, ENABLE);
 ADC _ Edge Start Config (LPC_ADC, ADC_START_ON_FALLING);
ADC _ Int Config (LPC_ADC, ADC_ADINTENO, ENABLE);
 ADC - Burst (md (LPC_ADC, ENABLE);
 NVIC_Enable IRQ (ADC_IRQn);
3
vold set_timer 0 (vold) {
 LPC_SC -> PCONP 1= (1441);
 LPC_SC -> PCLKSELO 1= (1<<2);
 LPC _ TIMO -> MR1 = 2560;
 LPC _TIMD -> MCR 1= (144)
 LPC _TIMO > EMR 1= (3<46);
 LPC _TIMO -> TCR = 3;
 LPC - TIMO -> TCR & = ~ (1 << 1);
  LPC _ TIMO -> IR 1 = (1 ( 1); limple flag
```

```
void set_timer 1 (roid) {
 LPC - SC -> PCONP 1 = (1<< 2);
 LPC _SC -> PCLKSELO 1 = (1 < < 4);
 LPC _ TIM 1 -> MRO = 3659999999;
 LPC _ TIM1 -> MCR 1= (3 < 2);
 LPC - TIMI -> TCR = 3;
 LPC - TIMI +> TCR & = ~ (1441);
  LPC - TIM1 +> IR 1= (1440);
 NVICL ENable IRQ (TIMER 1 _ IRQn) i
Void Set-pin (void) {
                       pinconf, adc conf
 PINSEL _ CFG_T ype
pin conf. Portnum =
pin conf . Pin num = 29;
pin conf . Function = 3;
pin conf. Pin mode = 2;
pin conf. Open Disin = 0;
adc conf . Portnum = 0;
adc conf. Pin num = 23;
adcconf. Function = 2;
adc conf. Pinmode =
 adc conf. Open Drain : 0;
 PINSEL - Config Pin (8 pin conf);
PINSEL - Config Pin (8 adoconf);
      TIMER 1 - IRQ Handler (void) {
Vold
 LPC_TIMO -> MR1 = 5119
 LPC-TIMO > TCR=3;
  LPC_TIMO -> TCR 8 = ~ (1<<1);
  LPC _ TIM1 -> (R 1= (1 <<0)
3
```

Escaneado con CamScanner