



Faculty of Engineering and Technology
Electrical and computer Engineering Department

Engineering Simulation Laboratory
ENEE 4104

Report about
Assignment.2

Controlling speed of DC-motor using mikro-c and protues programs

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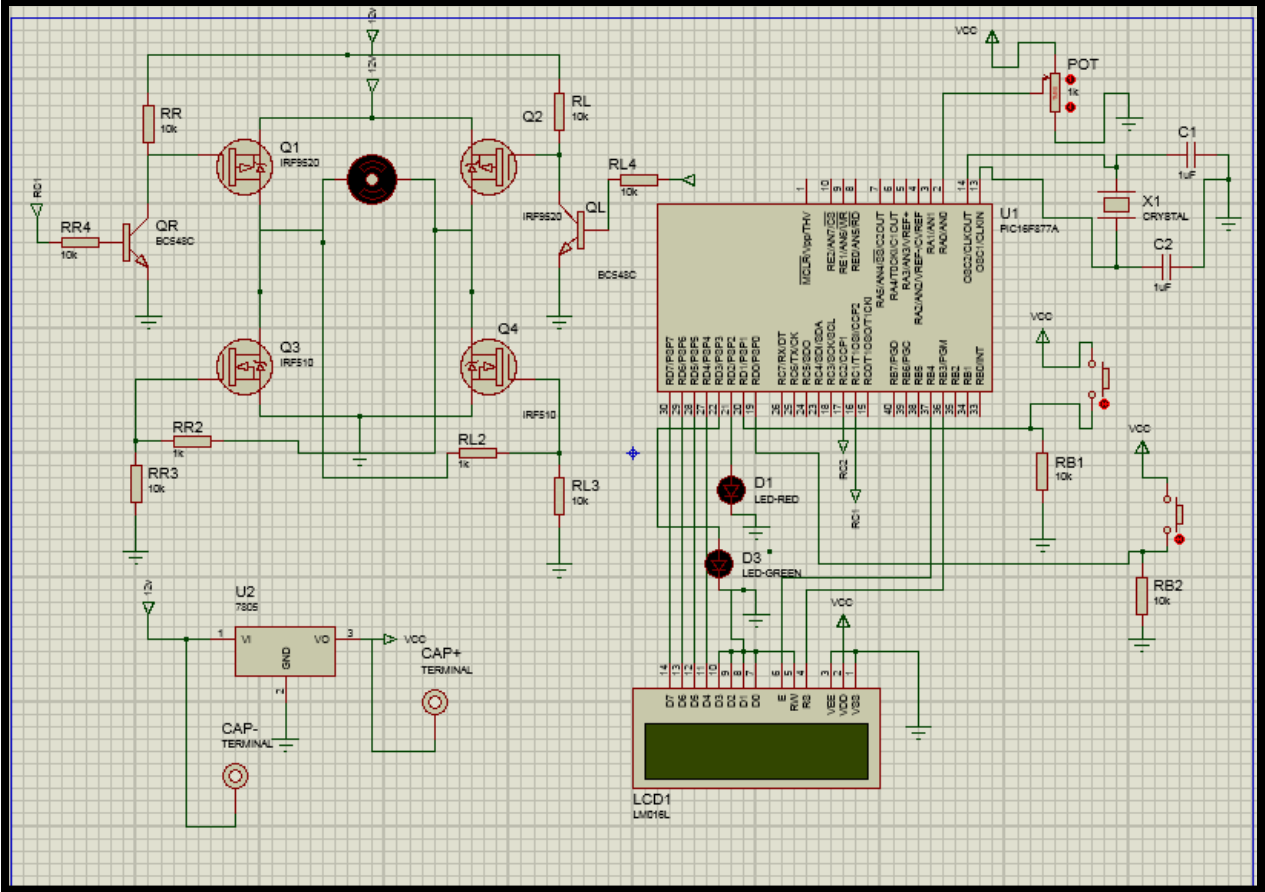
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Section #1



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// Lcd pinout settings
sbit LCD_RS at RB3_bit;
sbit LCD_EN at RB4_bit;
sbit LCD_D7 at RD7_bit;
sbit LCD_D6 at RD6_bit;
sbit LCD_D5 at RD5_bit;
sbit LCD_D4 at RD4_bit;

// Pin direction
sbit LCD_RS_Direction at TRISB3_bit;
sbit LCD_EN_Direction at TRISB4_bit;
sbit LCD_D7_Direction at TRISD7_bit;
sbit LCD_D6_Direction at TRISD6_bit;
sbit LCD_D5_Direction at TRISD5_bit;
sbit LCD_D4_Direction at TRISD4_bit;

lcd_init();
Lcd_Cmd(_LCD_CURSOR_OFF);

void main() {
    TRISB = 0x00;
    TRISD = 0x00;
    while(1){
        lcd_out(1,1,"Iman Abu-Ayysh");
        lcd_out(2,1,"1111568");
        delay_ms(5000);
    }
}

```

```

· lcd_cmd(_lcd_clear);
30 while(1){
· if(portd.b0=1){ if(portd.b1=1) {
· portc=1;
· TRISc=0;
· pwm1_init(1000);
· pwm1_start();
· portd.b3=1 ;
· while(1){
· pwm1_set_duty(225);
· delay_ms(200);}
40 lcd_out(1,1,"on");
· lcd_out(2,1,"clockwise");
· if(portd.b1=0) {
· portc=1;
· TRISc=0;
· pwm2_init(1000);
· pwm2_start();
· portd.b2=1 ;
· while(1){
· pwm2_set_duty(225);
50 delay_ms(200);}
· lcd_out(1,1,"off");
· lcd_out(2,1,"counter - clockwise");
53 }}}}]}

```