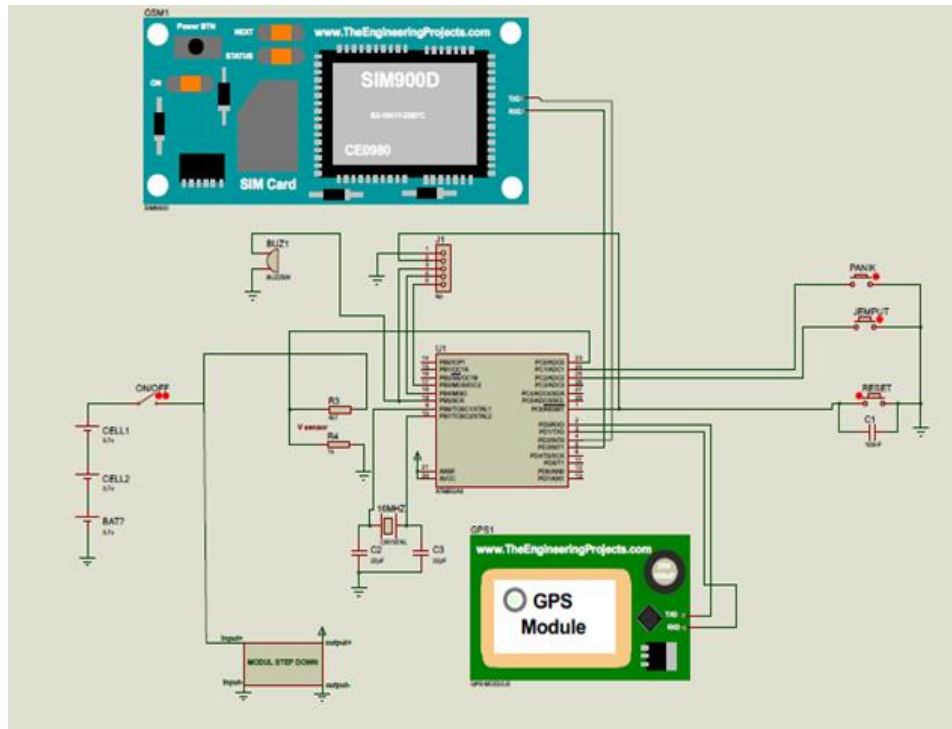


LAMPIRAN

Rangkaian Keseluruhan alat



Program Keseluruhan

```
#include <PString.h>
#include <TinyGPS.h>
#include <SoftwareSerial.h>
#include "SIM900.h"
#define pinpanik  A1
#define pinjemput  A2
#define pinoutput  13
#define rx_gsm  2
#define tx_gsm  3
#define rx_gps  0
#define vsensor  A0
```

```
float latitude, longitude;

char nomorhp[]="085720100701";

char nomorhp1[]="089668703263";

char nomorhp2[]="085931524888";

char smsbuffer[100];

char buffer_data[200];

String kirim="";

PString str(buffer, sizeof(buffer));

int posisi=0;

void setup() {

    pinMode(pinpanik,INPUT_PULLUP);

    pinMode(pinjempit,INPUT_PULLUP);

    pinMode(pinoutput,OUTPUT);

    digitalWrite(pinoutput,HIGH);

    delay(50);

    digitalWrite(pinoutput,LOW);

    Serial.begin(9600);

    gsm.begin(9600);

}
```

```
void loop() {  
  
}  
  
void notifikasi(int jeda, int jumlah){  
    for(int i=0; i<jumlah; i++){  
        digitalWrite(pinoutput,HIGH);  
        delay(jeda);  
        digitalWrite(pinoutput,LOW);  
        delay(200);  
    }  
}  
  
float read_volt(){  
    float volt,voltout;  
    float voltmax=3.4,involtmax=20.0;  
    int data = analogRead(vsensor);  
  
    volt=data*((float)5/1023);  
    voltout=volt*((float)involtmax/voltmax);  
    return voltout;  
}  
  
void yang_utama(){  
    int respon;  
    float bat = read_volt();  
  
    //-----baca gps
```

```

while (Serial.available() {
int datagps = Serial.read();
if (gps.encode(datagps)) {
    gps.f_get_position(&latitude, &longitude);
}
}

//-----baca tombol panik
if(digitalRead(pinpanik)==LOW||posisi==1){
    posisi=0;
    str.begin();
    str.print("Batery: ");
    str.print(bat);
    str.print(" V ");
    str.print("Posisi https://maps.google.com/maps?q=");
    str.print(latitude, 6);
    str.print(F(", "));
    str.print(longitude, 6);
    digitalWrite(pinoutput,HIGH);
    delay(500);
    digitalWrite(pinoutput,LOW);

    respon=0;
    respon = sms.SendSMS(nomorhp, buffer);

```

```
if(respon==1)notifikasi(200,2);
else notifikasi(100,1);

delay(1000);

respon=0;
respon = sms.SendSMS(nomorhp1, buffer);

if(respon==1)notifikasi(200,2);
else notifikasi(100,1);

delay(1000);

respon=0;
respon = sms.SendSMS(nomorhp2, buffer);

if(respon==1)notifikasi(200,2);
else notifikasi(100,1);

}

//-----baca tombol dijemput
if(digitalRead(pinjemput)==LOW){
    char pesan[] = "Sudah Ada Yang Jemput";
    digitalWrite(pinoutput,HIGH);
```

```
delay(500);  
digitalWrite(pinoutput,LOW);  
  
respon=0;  
respon = sms.SendSMS(nomorhp, pesan);  
  
if(respon==1)notifikasi(200,2);  
else notifikasi(100,1);  
  
delay(1000);  
  
respon=0;  
respon = sms.SendSMS(nomorhp1, pesan);  
  
if(respon==1)notifikasi(200,2);  
else notifikasi(100,1);  
  
delay(1000);  
  
respon=0;  
respon = sms.SendSMS(nomorhp2, pesan);  
  
if(respon==1)notifikasi(200,2);  
else notifikasi(100,1);
```

}

}