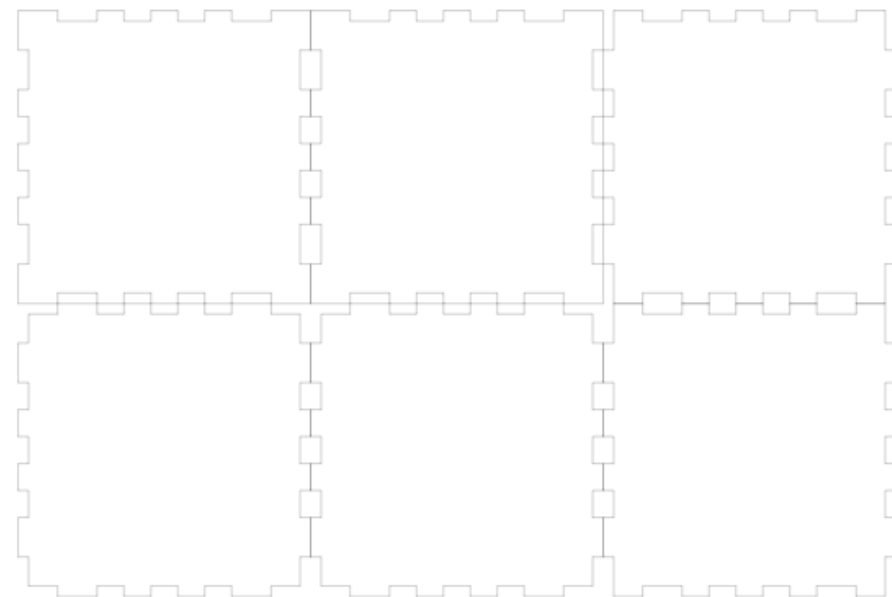
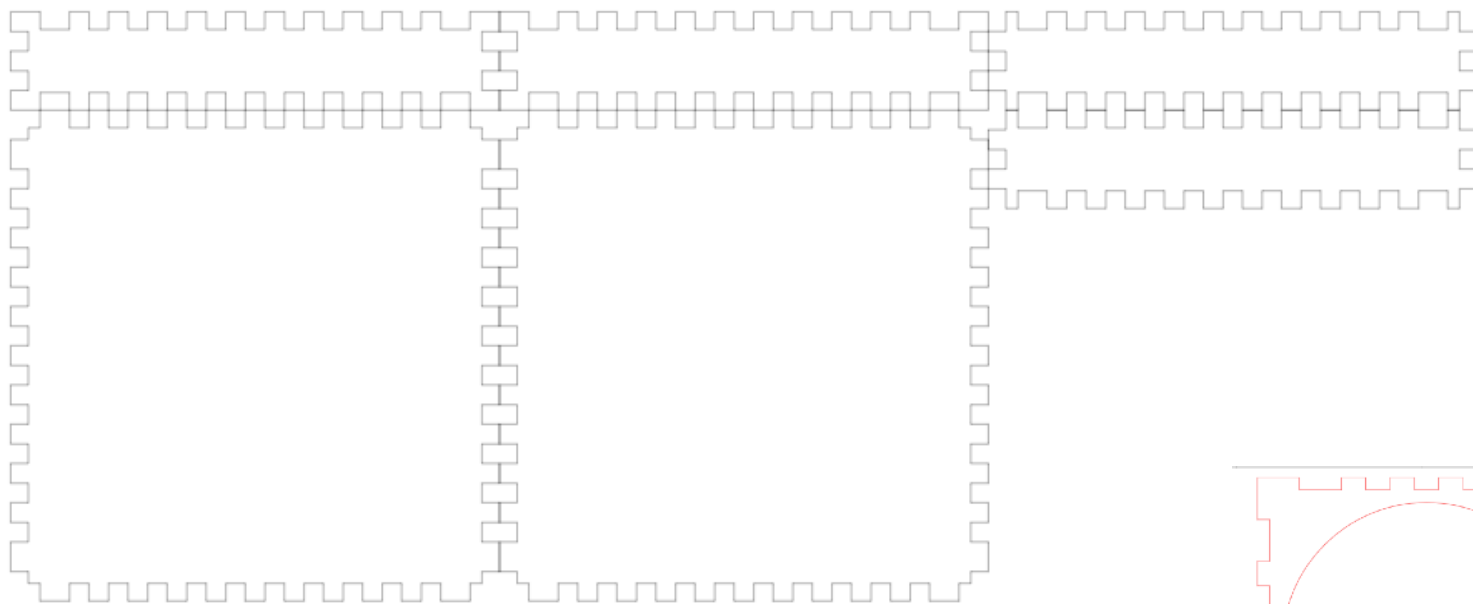
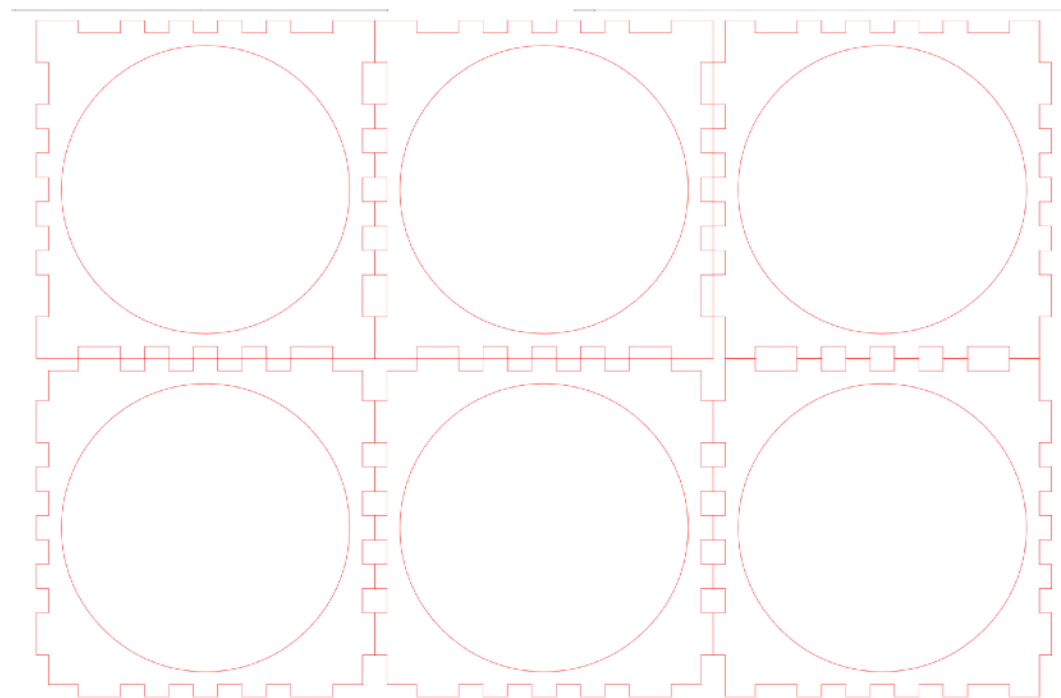


FABLAB FINAL PROJECTS

G2-B Stephen. Shen



Designs for the
Protect Case



3D Design Diagram for Mickey Helmet



Arduino Program

```
sketch_jun03a
const int row[8]={1,2,3,4,5,6,7,8};
const int col[8]={9,10,11,12,13,A3,A4,A5};
int pixels [8][8];
int x = 5;
int y = 5;
void setup() {
  // put your setup code here, to run once:
  for (int thisPin = 0; thisPin < 8; thisPin++){
    pinMode(col[thisPin],OUTPUT);
    pinMode(row[thisPin],OUTPUT);
    digitalWrite(col[thisPin],HIGH);
  }
  for (int x = 0; x < 8; x++){
    for (int y = 0; y < 8; y++){
      pixels[x][y] = HIGH;
    }
  }
}
void loop(){
  // put your main code here, to run repeatedly:
  readSensors();
  refreshScreen();
  delay(1);
}
int random(int num);
void readSensors(){
  pixels[x][y] = HIGH;
  //x=7-map(analogRead(A0),0,1023,0,7);
  //y =map (analogRead(A1),0,1023,0,7);

  x= random(0,8);
  y= random(0,8);
  // x=7;
  //y=7;
  pixels[x][y] = LOW;
}
void refreshScreen(){

  digitalWrite(1,LOW);
  digitalWrite(2,LOW);
  digitalWrite(3,LOW);
```

上传成功。

项目使用了 1684 字节，占用了（5%）程序存储空间。最大为 30720 字节。
全局变量使用了177字节，（8%）的动态内存，余留1871字节局部变量。最大为2048字节。

```
sketch_jun03a
digitalWrite(4,LOW);
digitalWrite(5,LOW);
digitalWrite(6,LOW);
digitalWrite(7,LOW);
digitalWrite(8,LOW);
digitalWrite(col[0],HIGH);
digitalWrite(col[1],HIGH);
digitalWrite(col[2],HIGH);
digitalWrite(col[3],HIGH);
digitalWrite(col[4],HIGH);
digitalWrite(col[5],HIGH);
digitalWrite(col[6],HIGH);
digitalWrite(col[7],HIGH);
digitalWrite(row[x],HIGH);
digitalWrite(col[y],LOW);

/*
for(int thisRow=0;thisRow<8;thisRow++){
  digitalWrite(row[thisRow],HIGH);}

for(int thisCol=0;thisCol<8;thisCol++){
  // int thisPixel=pixels[thisRow][thisCol];
  digitalWrite(col[thisCol],thisPixel);
  //delay(1000);

  if(thisPixel==LOW){

    digitalWrite(col[thisCol],HIGH);
    // delay(1000);

  }
}
//delay(1000);

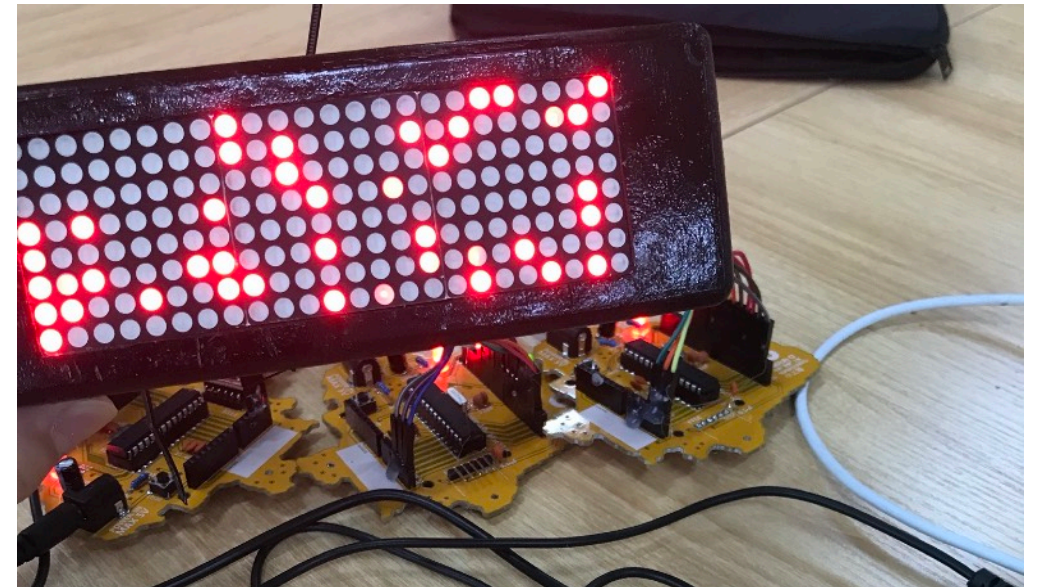
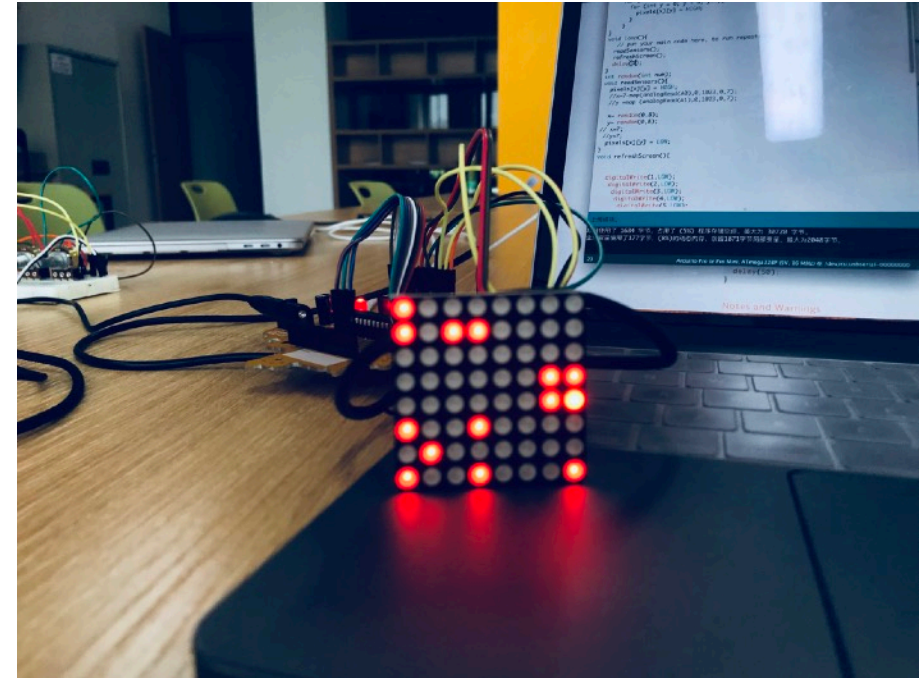
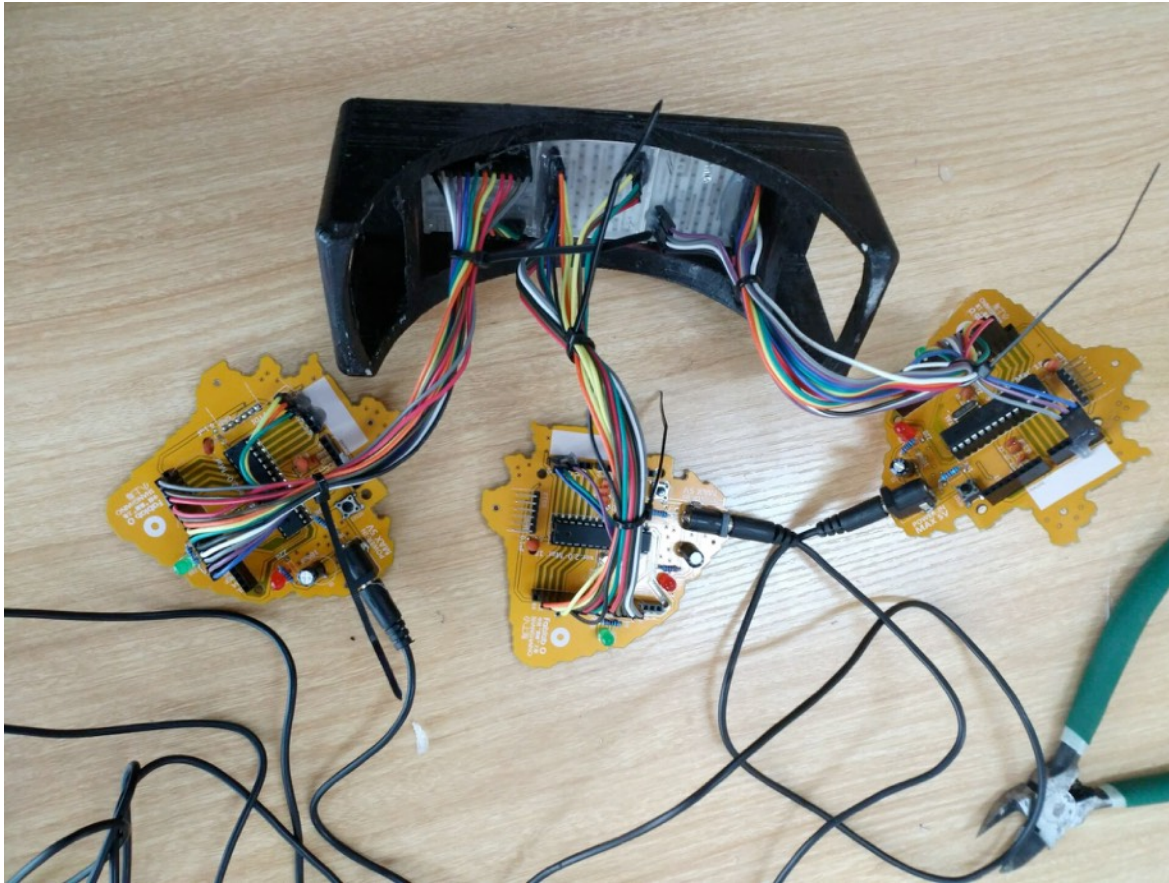
digitalWrite(row[thisRow],LOW);
//delay(1000);

}
*/
}
```

上传成功。

项目使用了 1684 字节，占用了（5%）程序存储空间。最大为 30720 字节。
全局变量使用了177字节，（8%）的动态内存，余留1871字节局部变量。最大为2048字节。

The complete Circuit



The Final Product

