Mini Garden

By Malik, Taiwu, Jemmson, Younnus





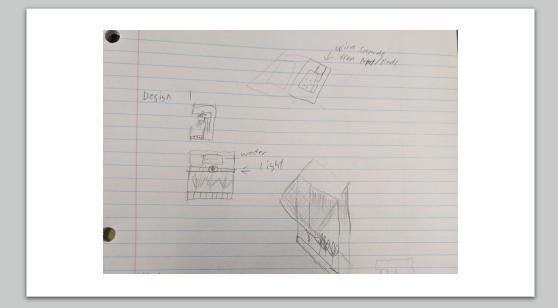
Observations:

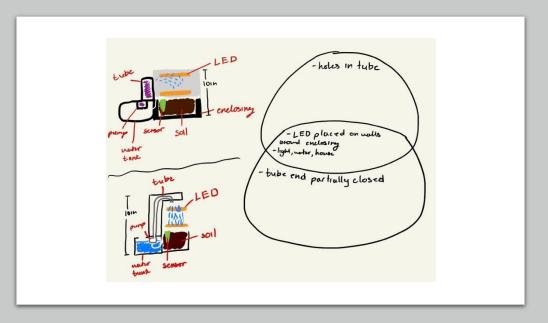
- Water is strongly needed
- Grow in the direction where there is sunlight

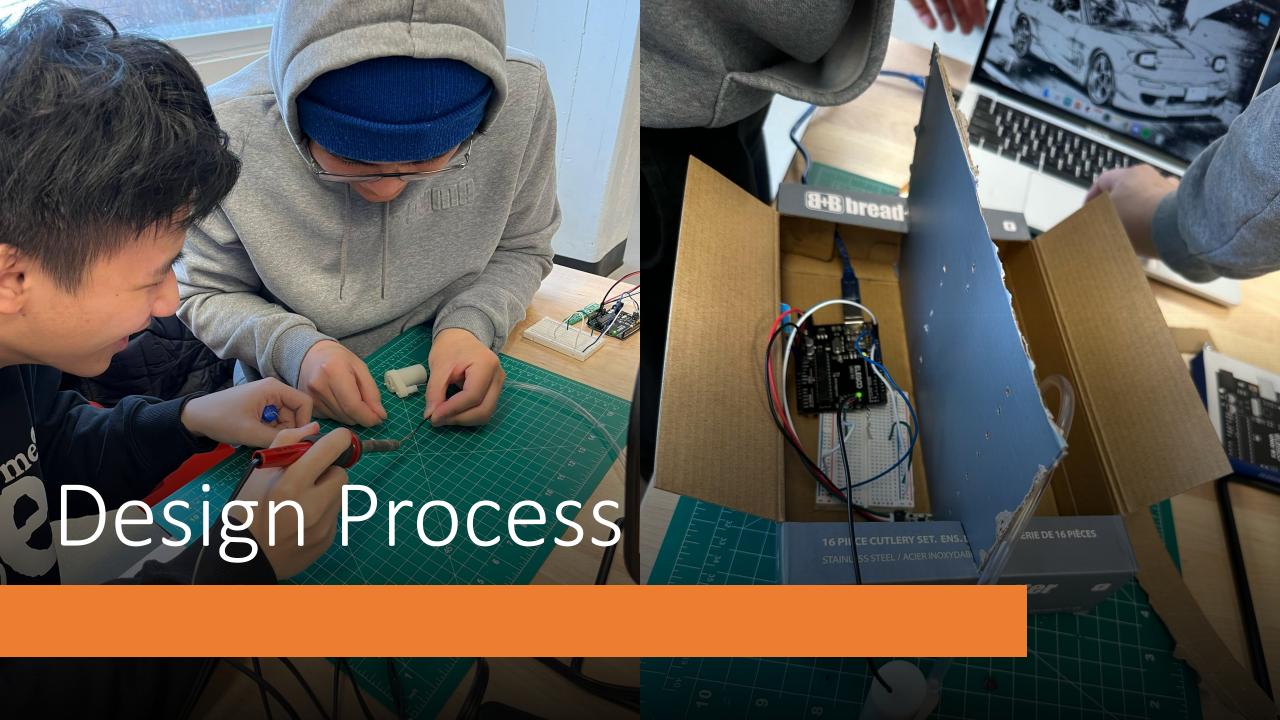


Design Process

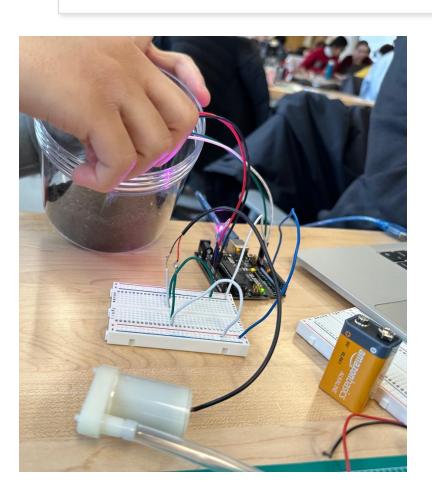
- Went through multiple different models
- Analyse possible problems and choose the best for the project.
- Greatly considered the plant's needs.

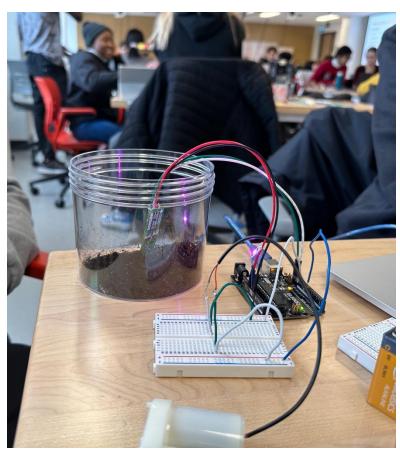






Design Process

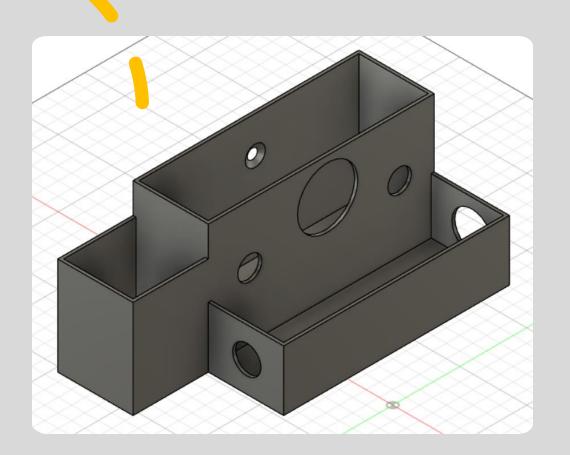


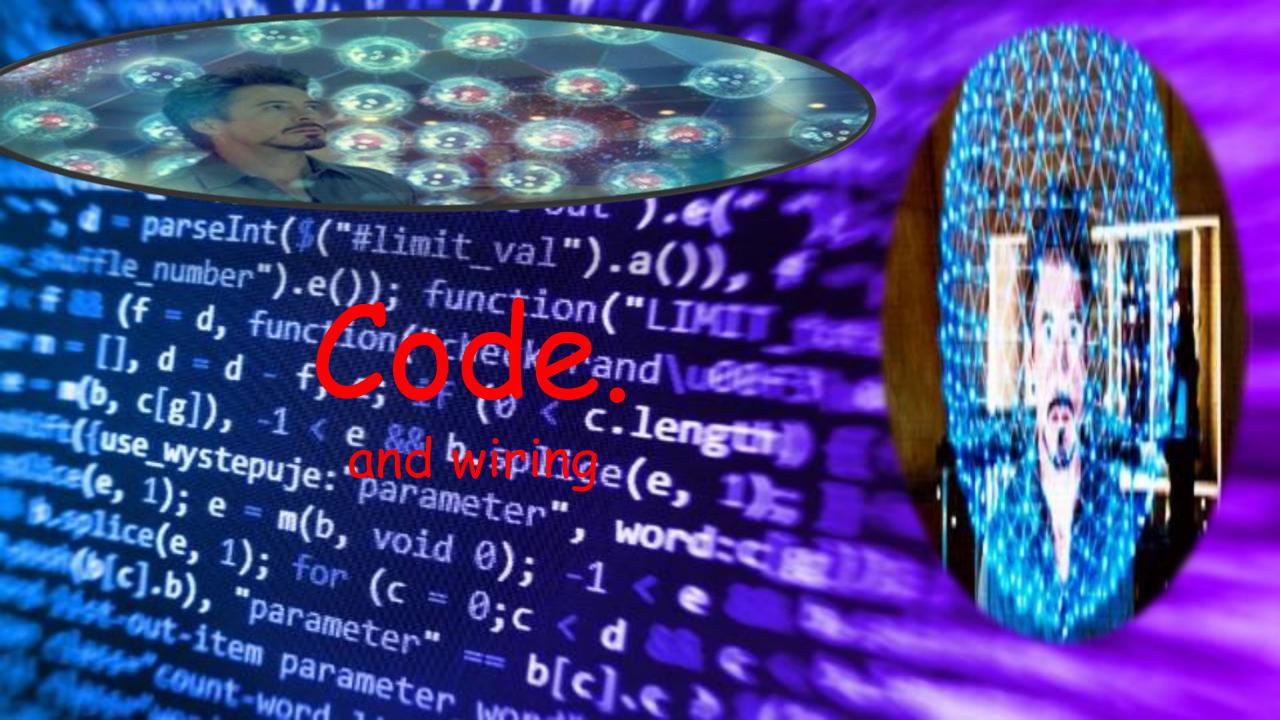




Model

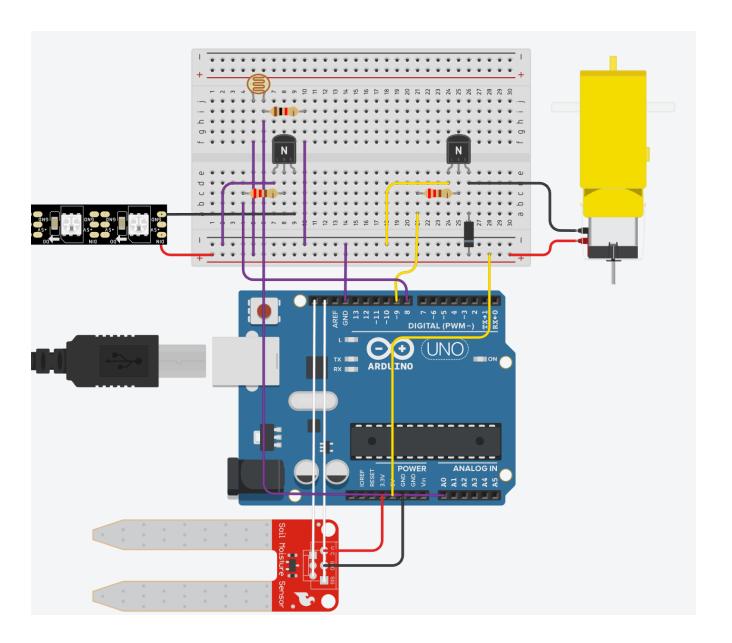
- Incorporated multiple design ideas.
- Electronics completely safe from water.
- Open for the plant to grow.





```
MGE1830_comp_v944_left
                                                                                                 Greep Buy
                                                                                                                                                                                               3/14/2012
Finclude "Adafruit seesaw.h"
Adafruit_seesaw ss;
  nt pump = 9;
     pvalue;
   onst int pResistor = A0;
                                                                                                                           tempC = ss.getTemp();
                                                                                                                     Int16 t capread = ss.touchRead(0);
     pinMode(ledPin, OUTPUT);
     pinMode(pResistor, INPUT);
                                                                                                                  Serial.print("Temperature: "); Serial.print(tempC); Serial.println("*C");
     Serial.printin("seesaw Soil Sensor example:");
                                                                                                                  Serial.print("Capacitive: "); Serial.println(capread);
       if (!ss.begin(0x36)) {
        Serial.println("ERROR! seesaw not found");
                                                                                                               if (capread <= 400) {
                                                                                                                analogWrite(pump, on);
        Serial.print("seesaw started( version: ");
         Serial.println(ss.qetVersion(), HEX);
                                                                                                             analogWrite(pump, off);
        pinMode(pump, OUTPUT);
                                                                                                        pxalue = analogRead(pResistor);
                                                                                                        Serial.print("\n Photoresistor: "); Serial.println(pxalue);
                                                                                                       if (pyalue > 800) (
                                                                                                        digitalWrite(ledPin, LOW);
                                                                                                     digitalWrite(ledPin, HIGH);
                                                                                                  elay(500);
                                                                                                Circust re-
                                                                                                                                                                                             201048
```

Wiring



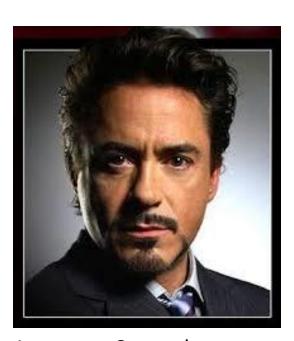


Taiwu Chen

Xie xie ni!



Younnus Iman



Jemmson Coronel



Malik Mahdivika