

DESTINY HARDING

**INDUSTRIAL**

**DESIGN**

**PORTFOLIO**

# EDUCATION

Academy of Art University

MA, Industrial Design

GPA: 3.8

2020 - 2022

University of Texas at Tyler

BS, Mechanical Engineering

2016 - 2019

# SKILLS

Adobe Creative Suite

Solidworks

Rhino

Inventor

Keyshot

Microsoft Office

Laser Cutting

3D Printing

Hand Prototyping

Sketching

# CONTACT

destiny\_harding@icloud.com

903.948.3931

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# divert

an automatic composter  
2021

# 01







**More than 50% of a  
typical US household  
garbage bag is compostable**



# How composting works

composting options for urban residents

**Composting typically must happen outdoors in bins.**

For people that live in a city where a garden is implausible, this makes composting virtually impossible with a few limited options available.



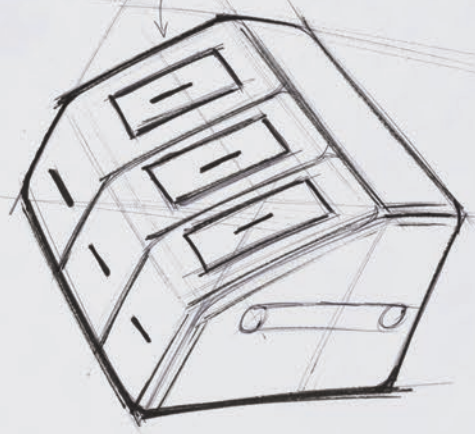
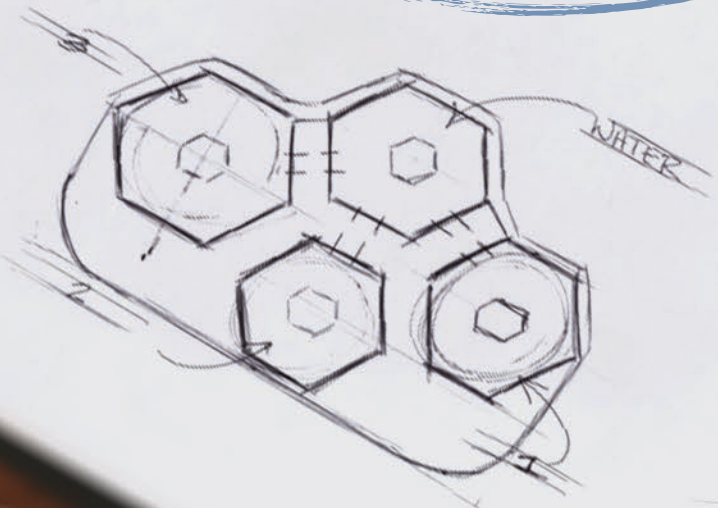
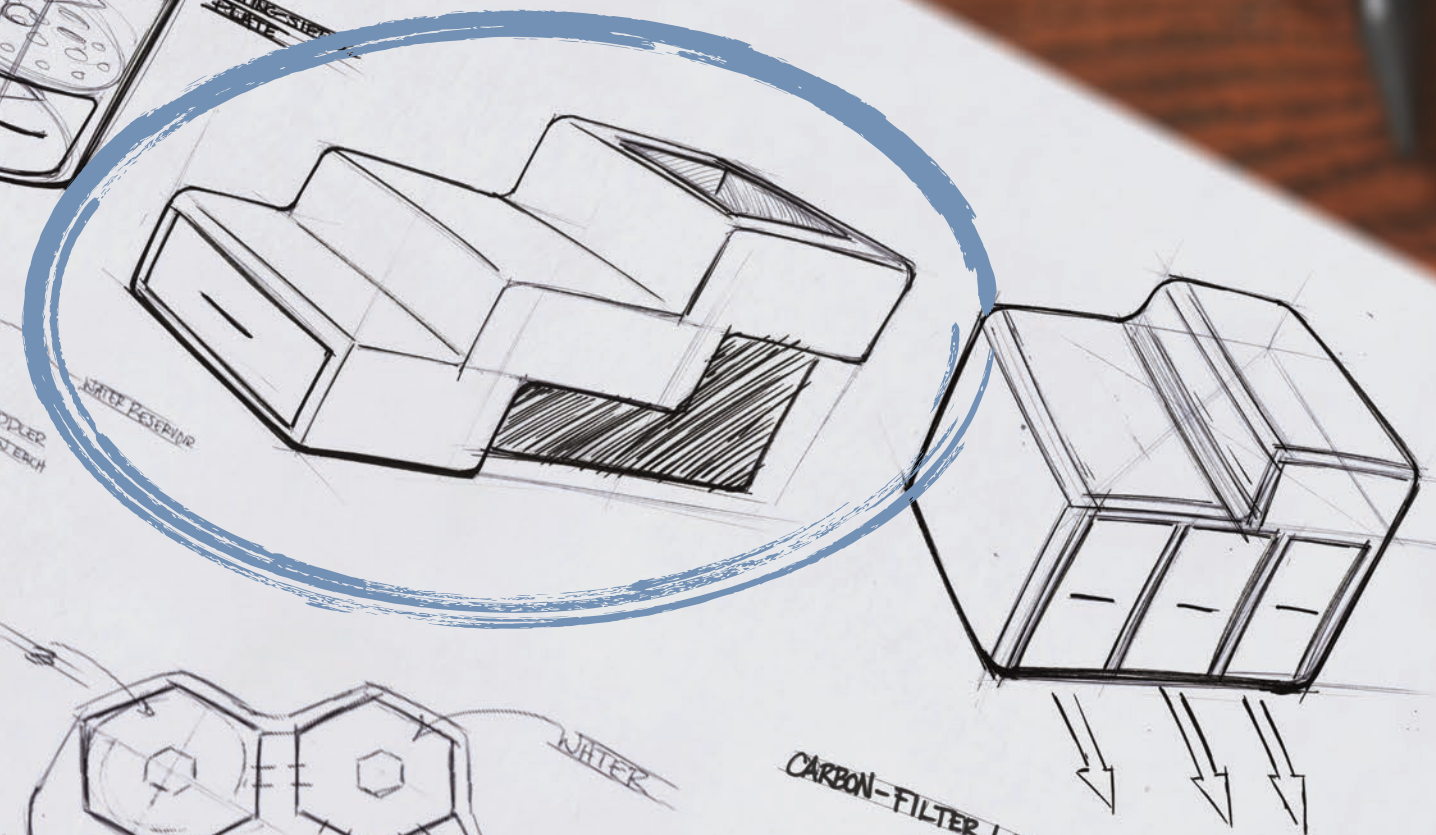
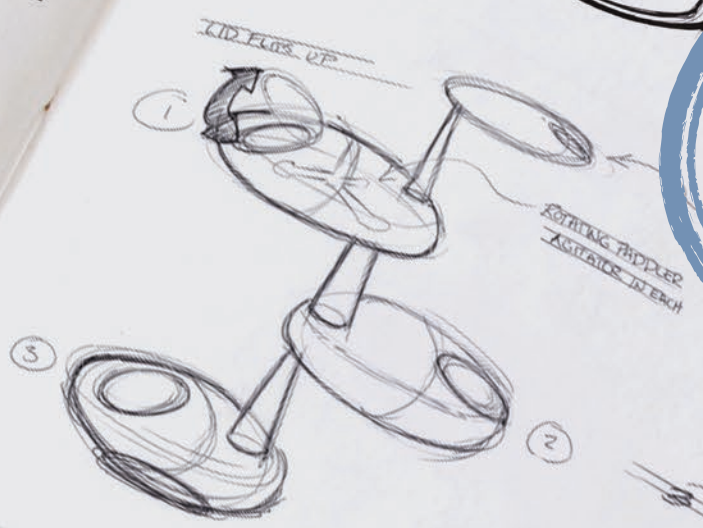
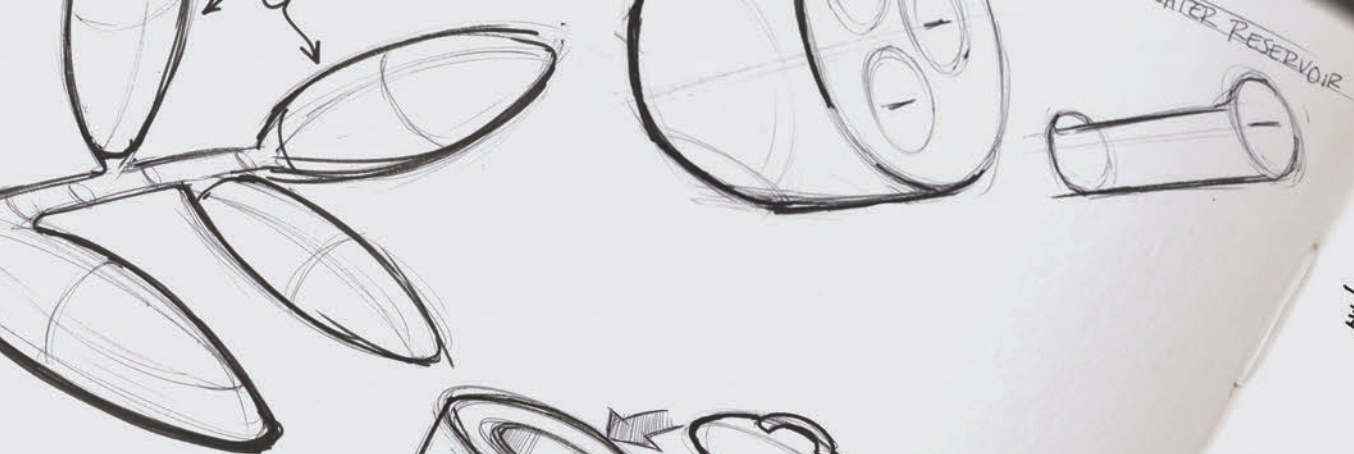
*“People are paying an extra \$20 to \$30 a month to have a private contractor come and pick up their little bucket of food scraps.”*

*- Adam Ortiz*

*Director of the Department of the Environment for Prince George’s County, Md.*



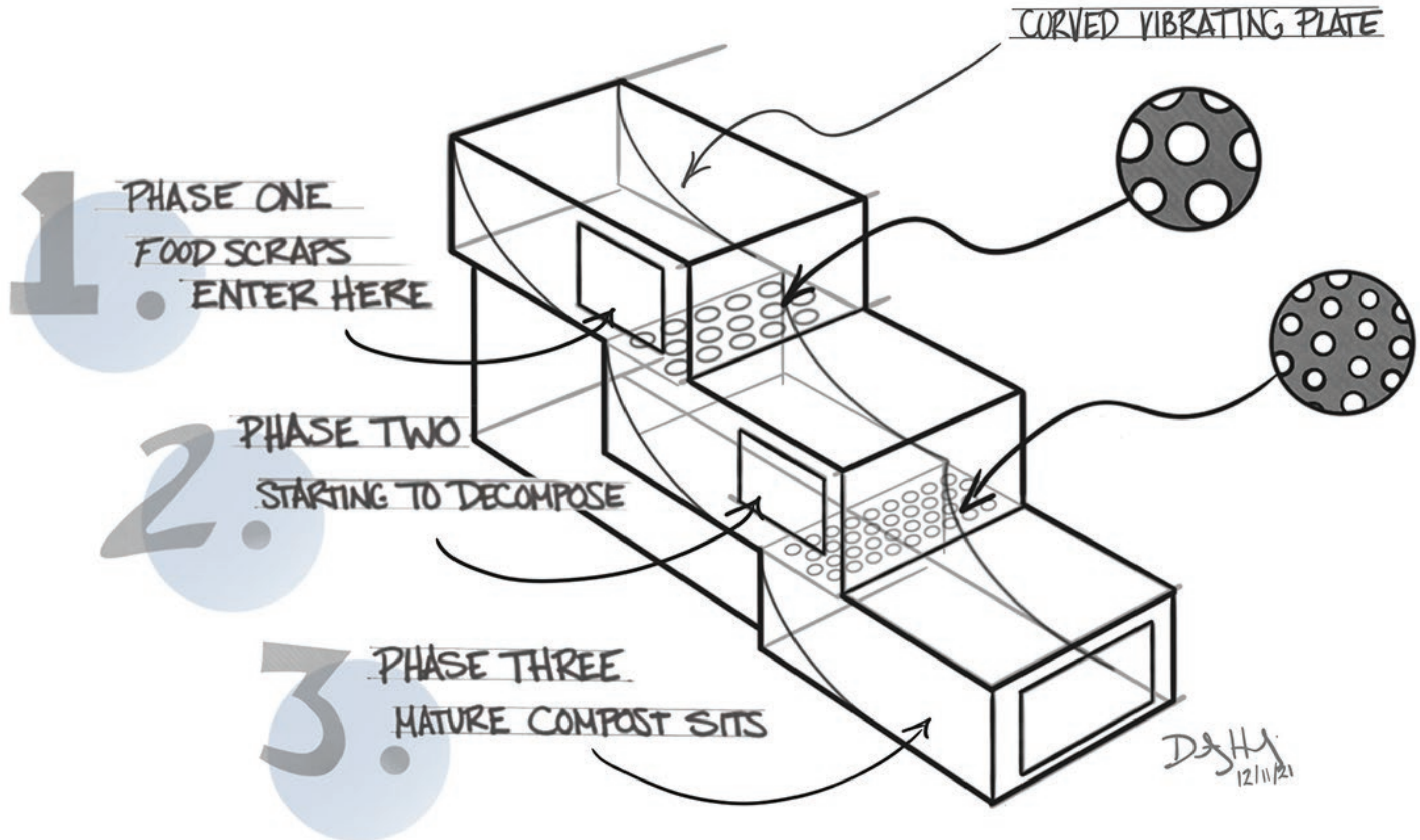






# How divert works

anatomy of the automatic composter



# divert

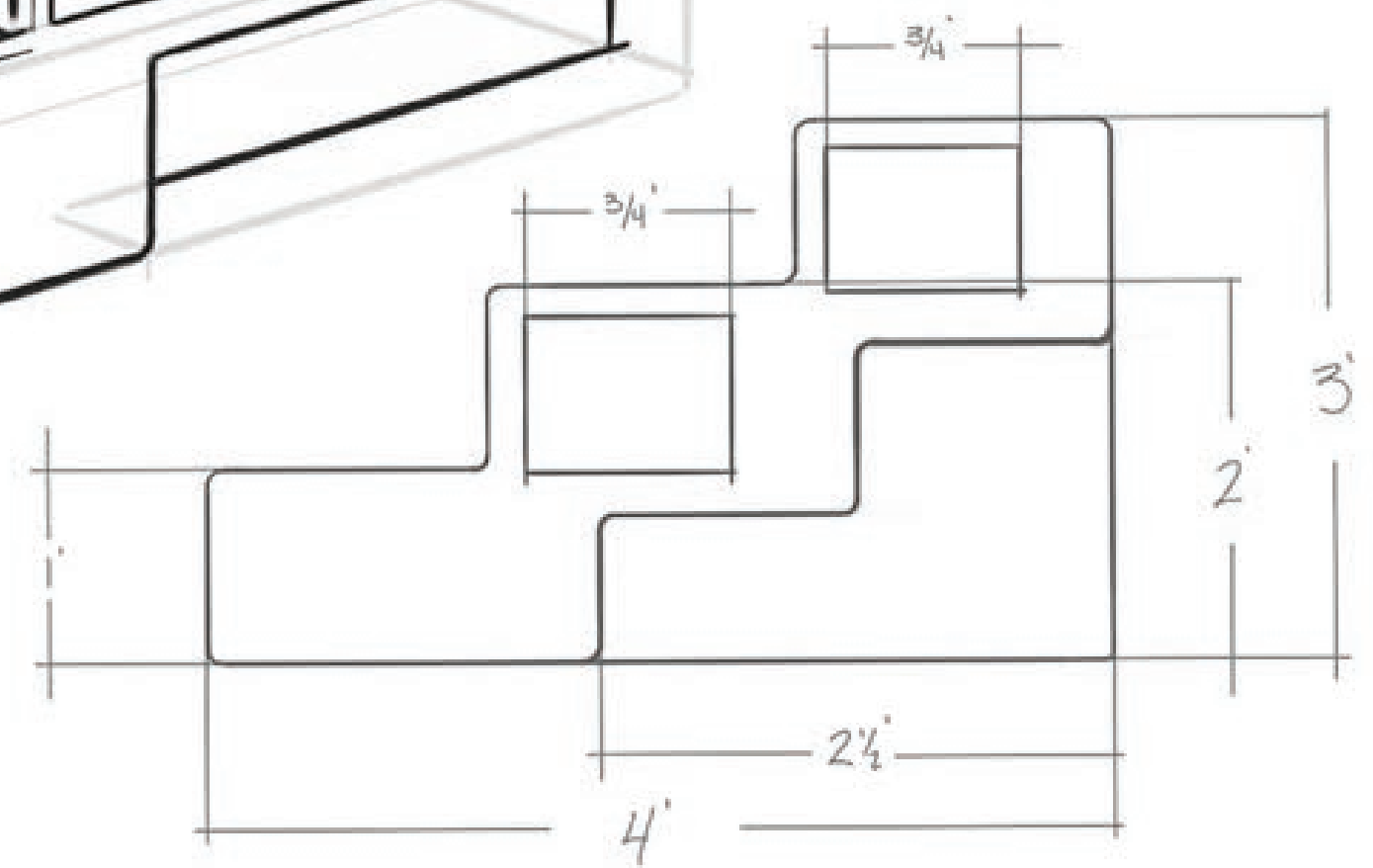
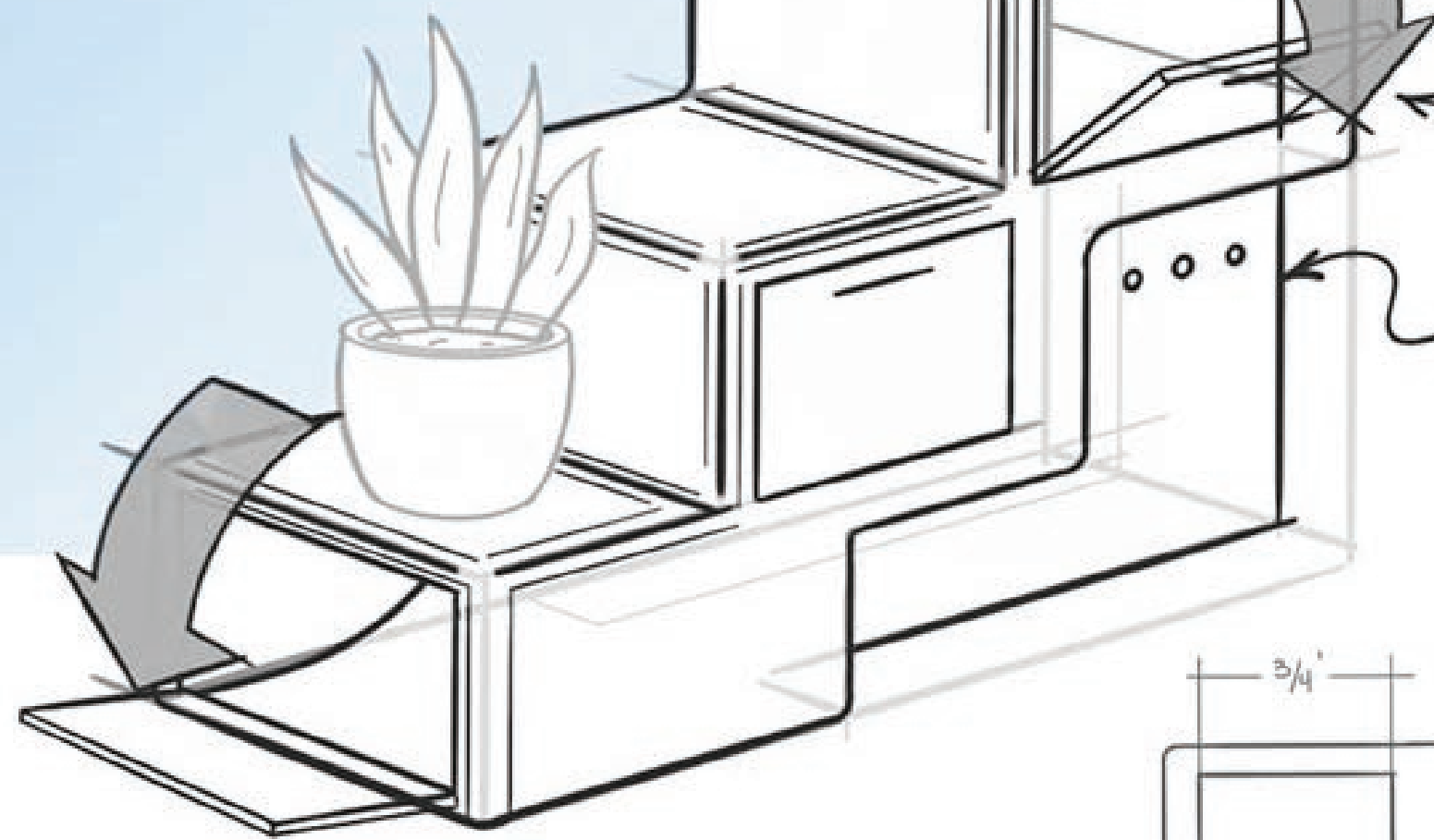
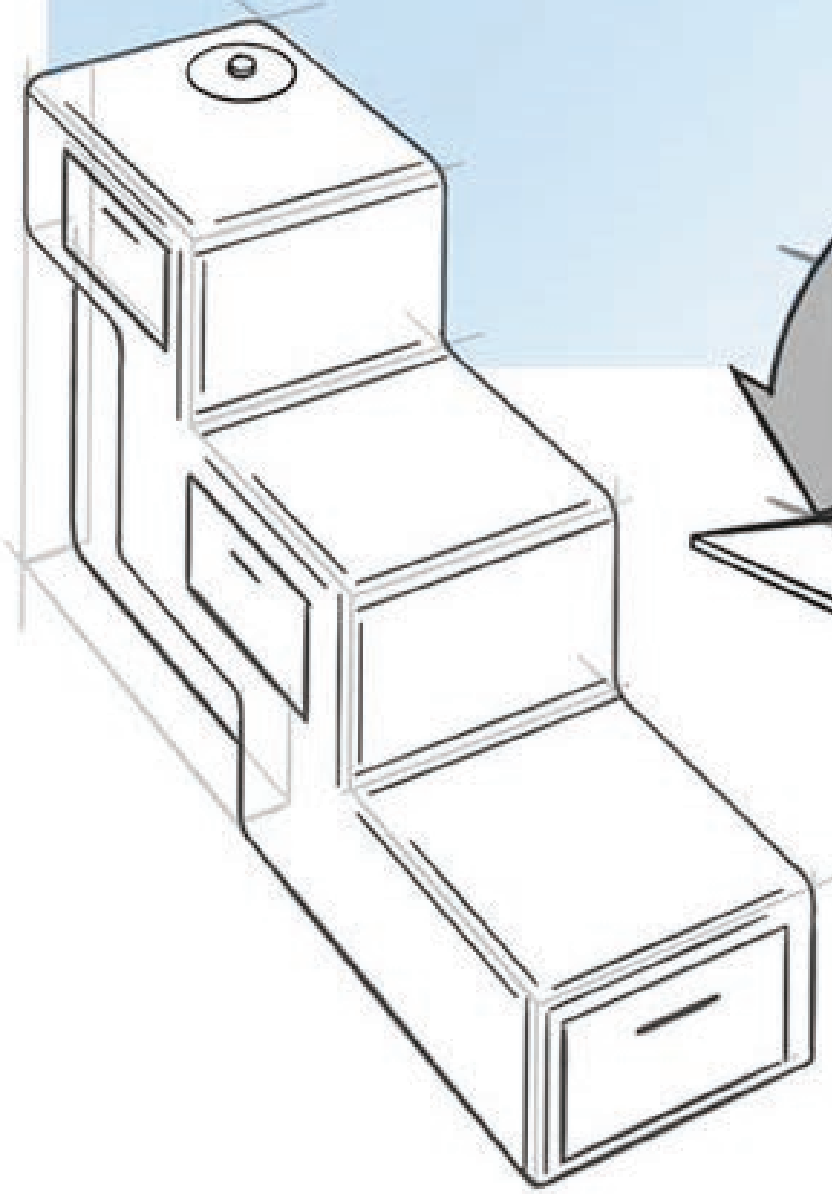
Benefiting from your own waste

DAILY 12/12/21

DUAL-PURPOSE WATERING CAN  
WATER RESERVOIR

SPRING-LOADED DOOR

STORAGE SPACE FOR GARDENING TOOLS





The divert app allows you to share your finished compost with local farms and personal gardens. There's also helpful guides to make sure you're feeding your compost correctly.







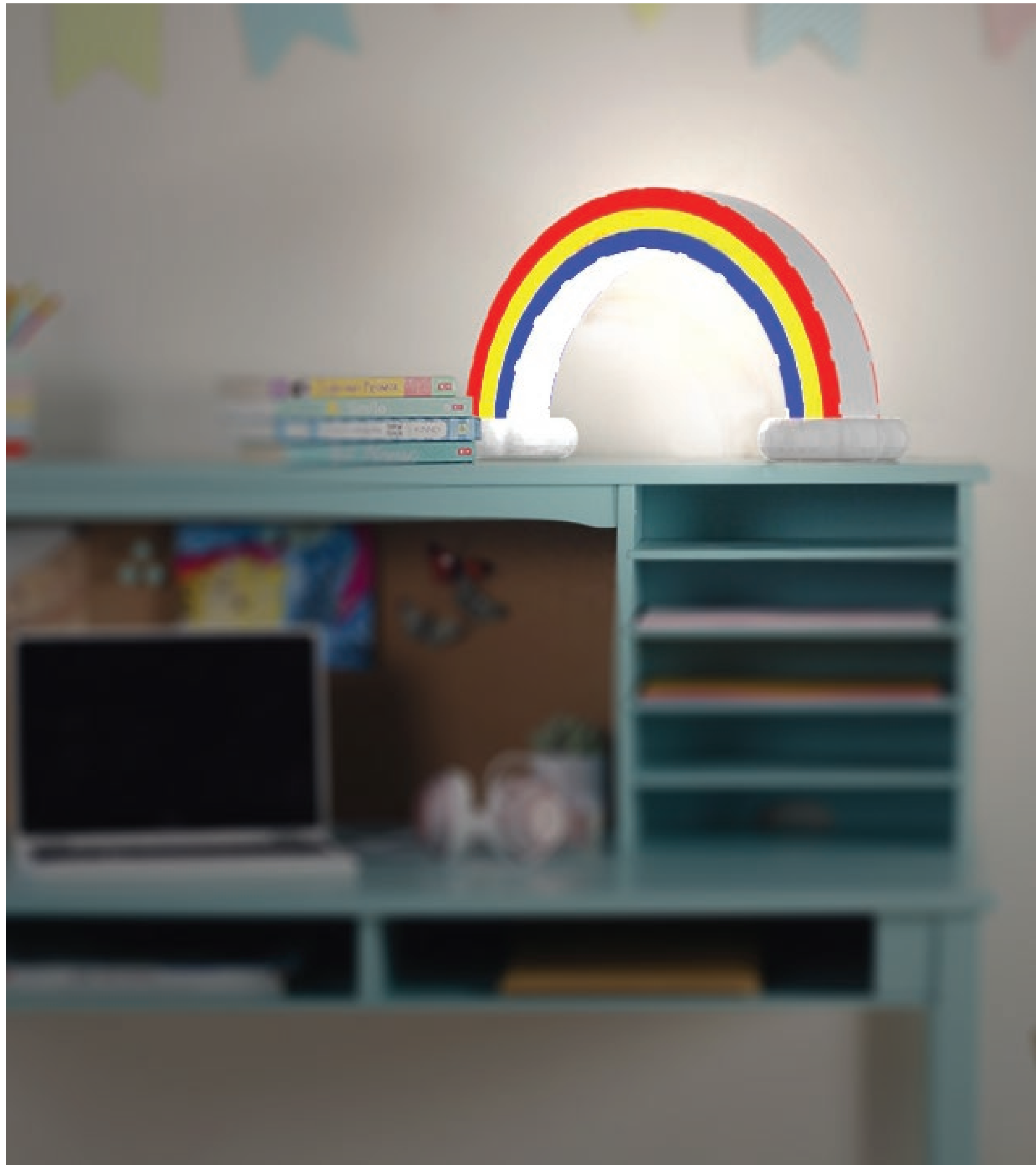


# Spectrum

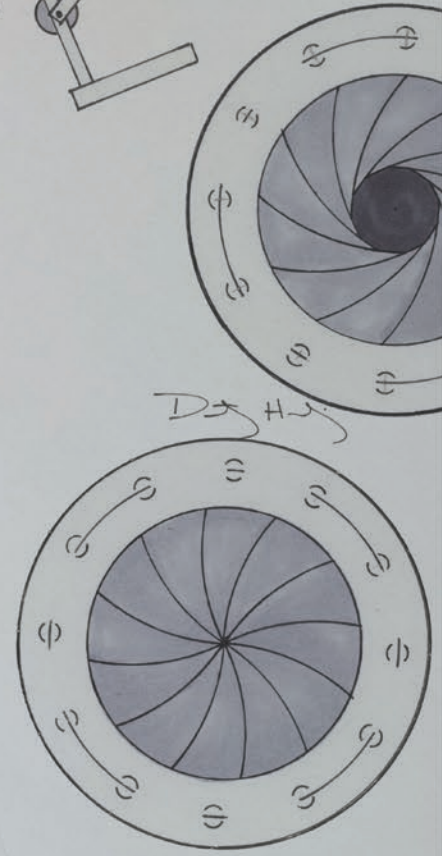
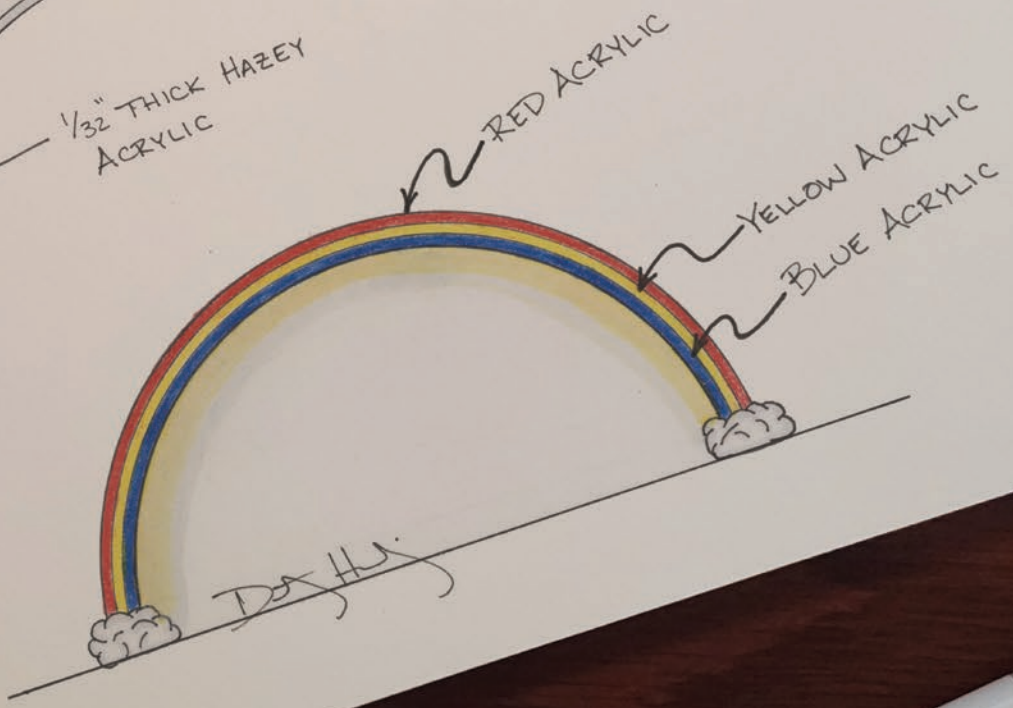
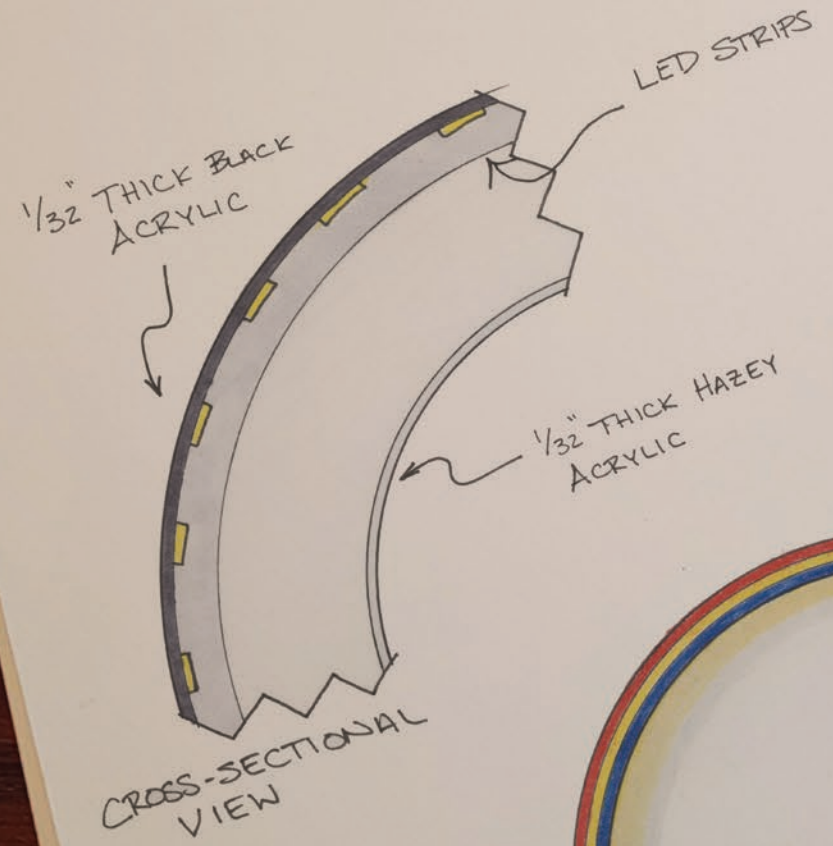
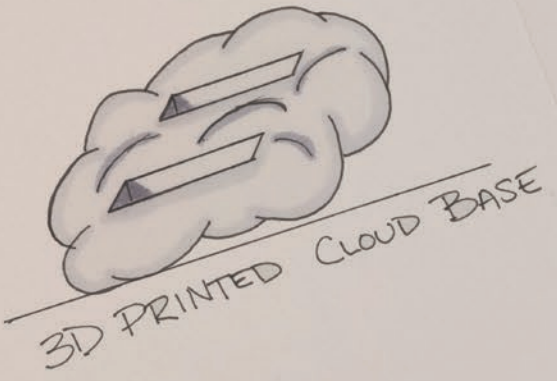
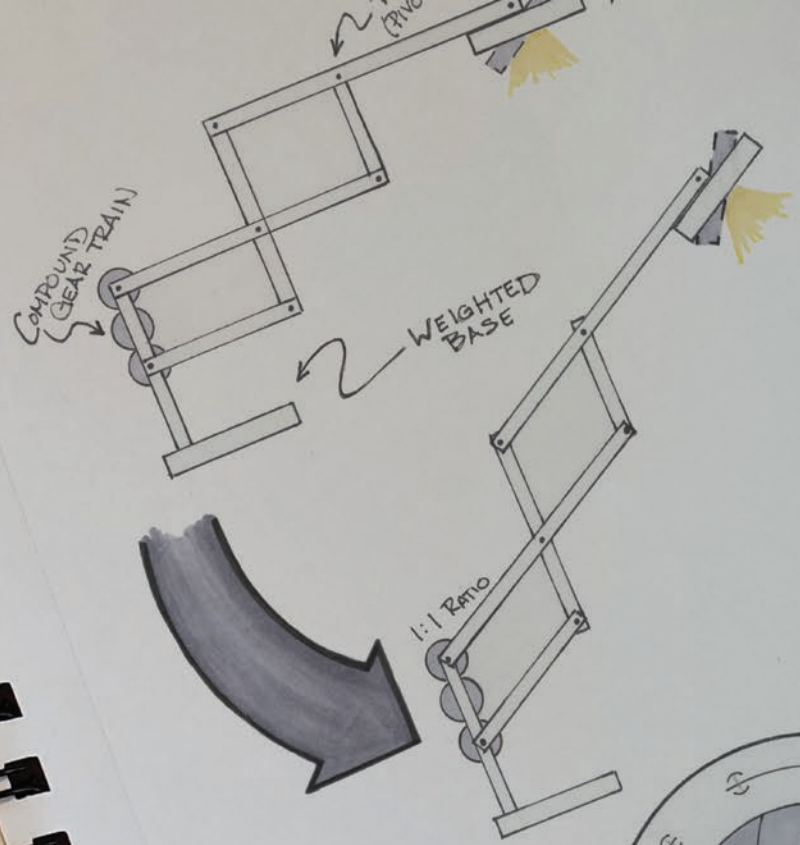
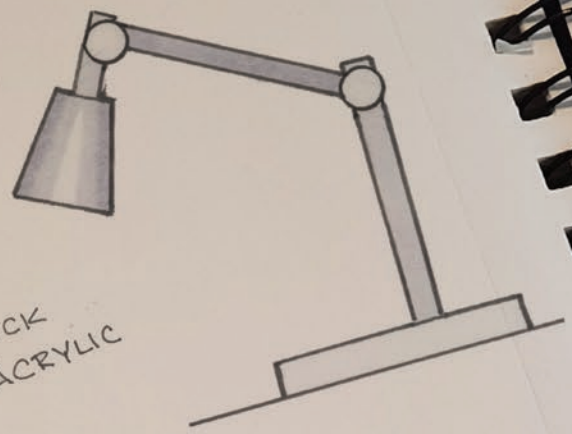
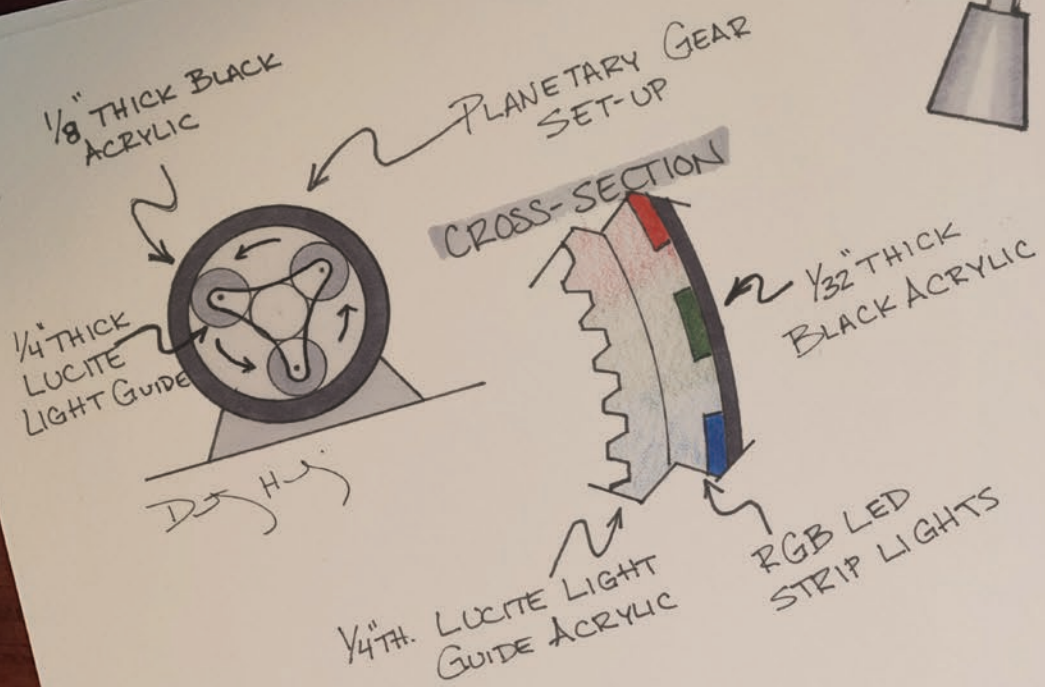
Children's Lamp

2020

# 02







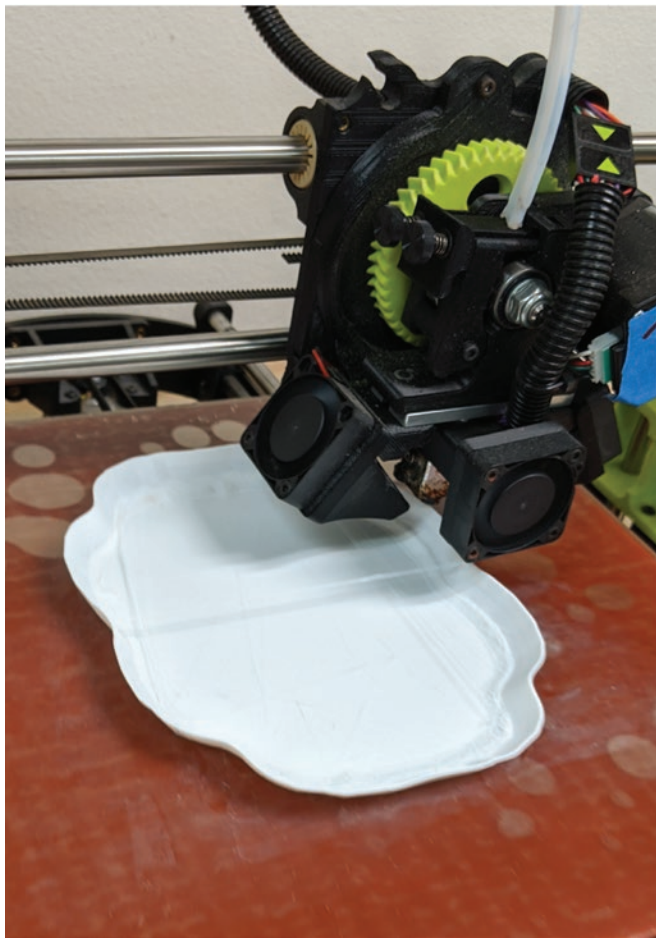


# Paper Model

understanding the prototype dimensions and manufacturing process before hitting the laser cutter

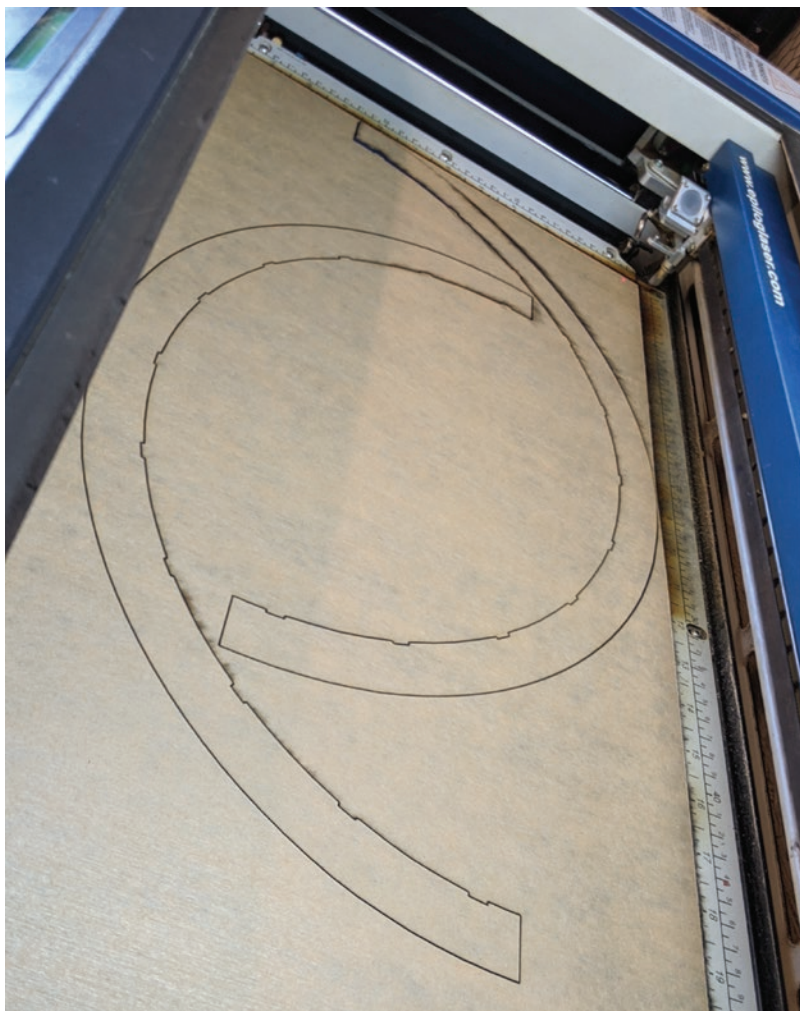






# Prototyping

3D printing the clouds with electrical housing and lasercutting cast acrylic for rainbow piece













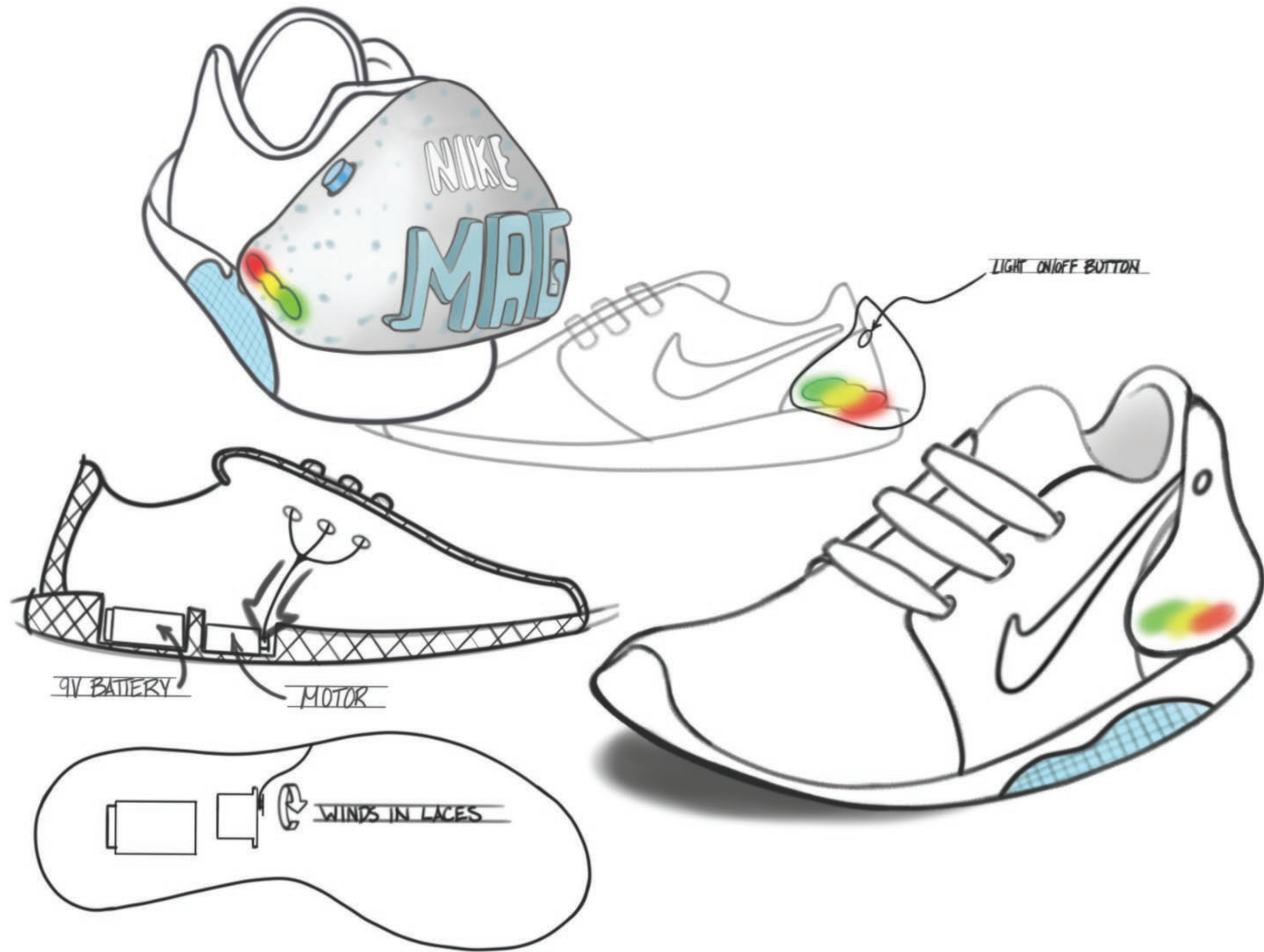
# Nike Mags

Electro-Lacing Shoes  
2019

03



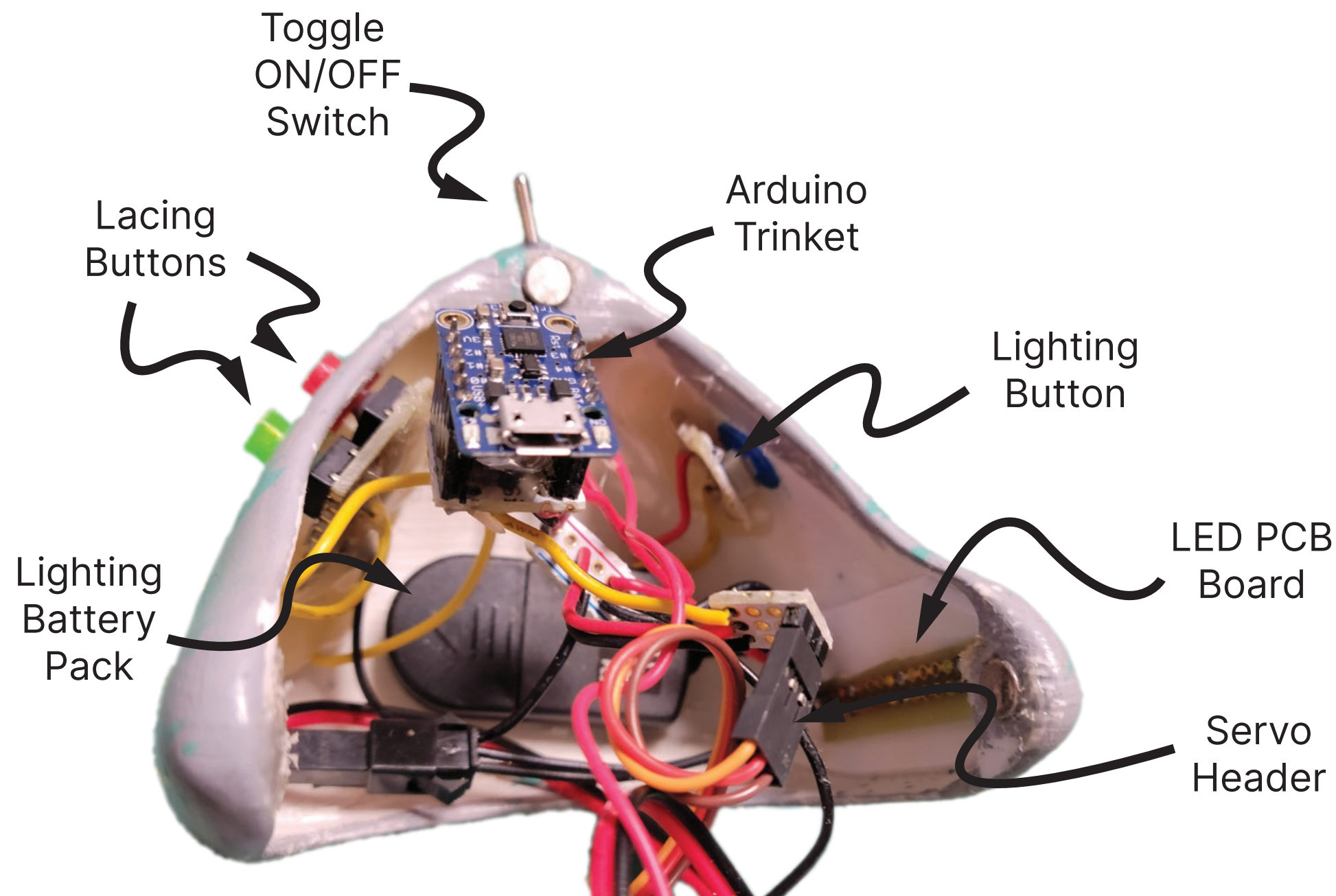






# Electrical Anatomy

electrical components in the heel cap and the code for the Arduino Trinket



```
#include <Adafruit_SoftServo.h>

#define SERVO 0
#define SWITCH1 1
#define SWITCH2 2
#define LED 3

Adafruit_SoftServo servo;

const int speed = 5;

void setup()
{
  servo.attach(SERVO);

  pinMode(SWITCH1, INPUT_PULLUP);
  pinMode(SWITCH2, INPUT_PULLUP);

  pinMode(LED, OUTPUT);
}

void loop()
{
  if (1 digitalRead(SWITCH1)) (
    servo.write(speed);
    servi.refresh();
    delay(15);
  )

  if (1 digitalRead(SWITCH2)) (
    servo.write(-speed);
    servi.refresh();
    delay(15);
  )
}
```











Looking forward to hearing from you.

destiny\_harding@icloud.com

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**THANK YOU**