

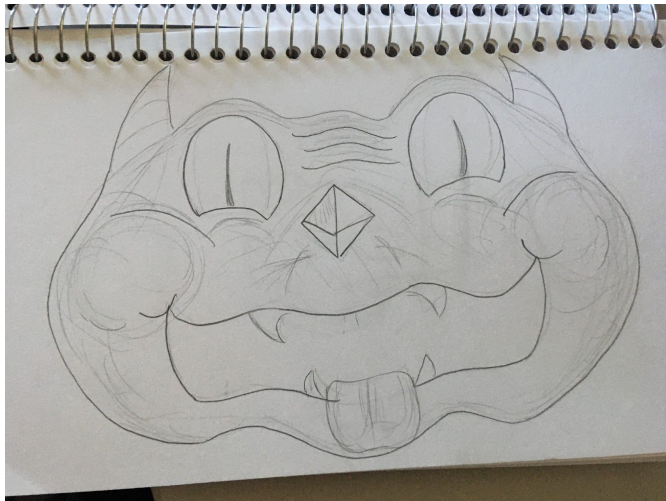
Who: Team

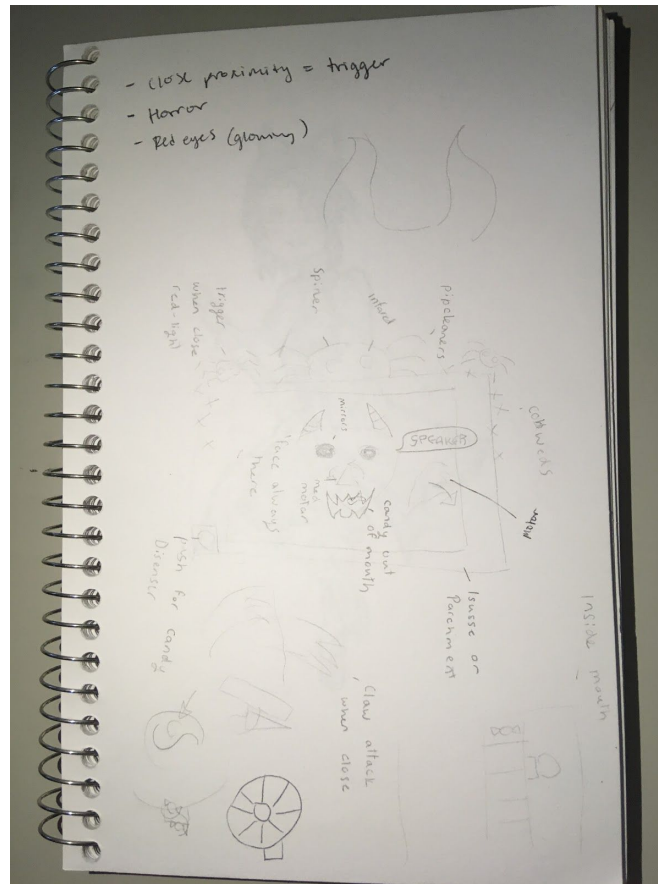
Team Name	Team Spook
Platform Number:	UA33-07
Team members	Maddy, Jasmine
Repository link	https://github.com/psb-2019-2020-s1-autonomous-robotics/scariestthingever

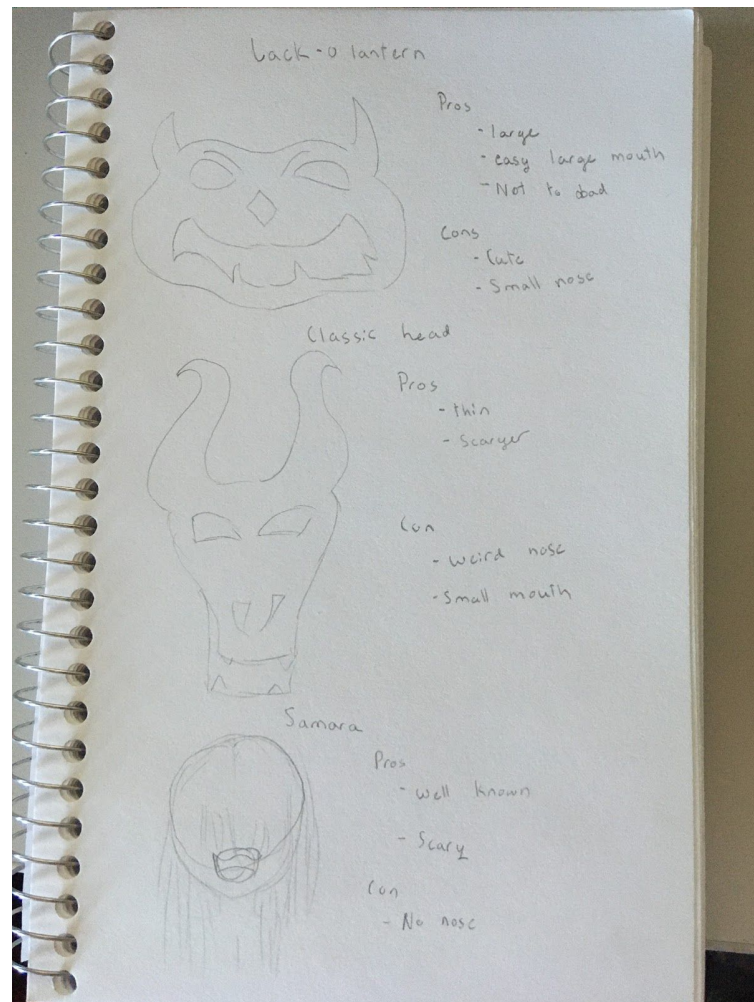
What: Description

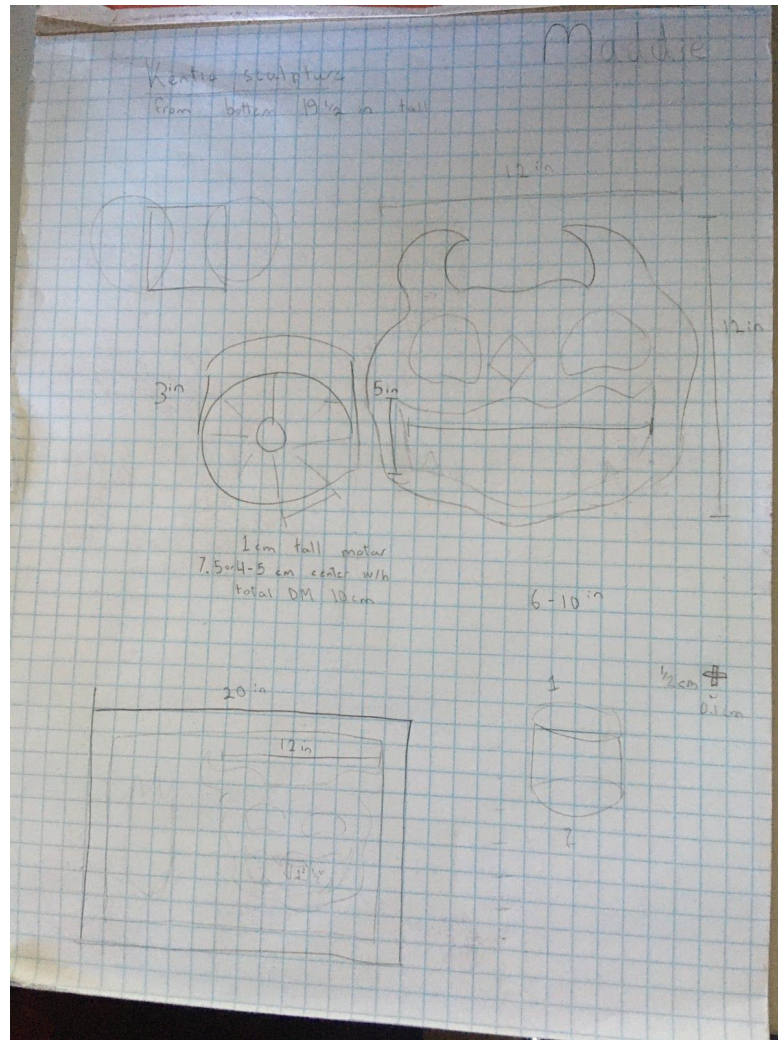
Goal (what is this to accomplish?)	This project aims to distribute candy in a fun way.
Use case(s) (how do you use it?)	Walk by to get scared by the monster; push button for candy.

How / Why: Other documentation

Design	
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Code	<pre>#!/usr/bin/env pybricks-micropython from pybricks import ev3brick as brick from pybricks.ev3devices import (Motor, TouchSensor, ColorSensor, InfraredSensor, UltrasonicSensor, GyroSensor) from pybricks.parameters import (Port, Stop, Direction, Button, Color, SoundFile, ImageFile, Align) from pybricks.tools import print, wait, Stopwatch from pybricks.robotics import DriveBase # Write your program here handMotor = Motor(Port.A) candyMotor = Motor(Port.B) noseMotor = Motor(Port.C) #button = TouchSensor(Port.S1) spiderEye = UltrasonicSensor(Port.S2) while True: distance = spiderEye.distance(False) print(distance) if distance <= 2000: #Arm code print("Turn 1") handMotor.run_target(500,90) #wait(1000) print("Turn 2") handMotor.run_target(500,-90) #Nose code noseMotor.run_target(500,360) #wait(500) brick.sound.file(SoundFile.LAUGHING_1) noseMotor.run_target(500,0) if button.pressed(): candyMotor.run_target(500, 45)</pre>
Tradeoffs (why?)	<p>Structural integrity + aesthetics: used cardboard and tape (convenient)</p> <p>Space: added more functionality -> slightly crowded</p>