The Wire-Bird

By Suveer and Avyukt

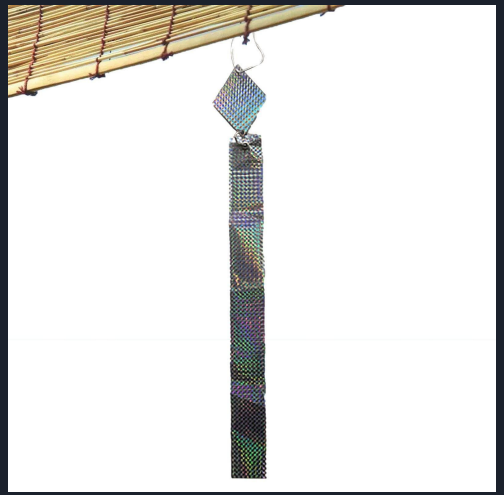
Problem Statement

The problem that we are trying to solve is pigeons dirtying the balconies in apartment buildings, creating unwanted noise and annoying pets like dogs causing even more noise.

Another problem is related to pigeon droppings. Humans can get infected with diseases like Psittacosis if the dust created while cleaning droppings is inhaled.

Other solutions

There are many products that have been created to combat this problem. These products are installed in homes to prevent pigeons.



What are the cons?

The cons of products such as the spikes and nets are that they tend to cause injuries to the pigeons. These injuries could also lead to the death of the pigeons

Our journey

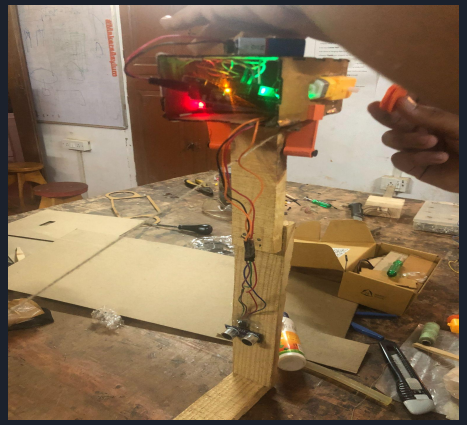
At first, we decided to take forward a previous Maker's Asylum project which involved buzzers with high frequencies.

Then, we thought of changing it. The reason behind the change is that the high frequency noise of the buzzer was very irritating, especially to dogs as they have very sensitive hearing.

Paper Prototype for the buzzer based system

Few of our prototypes

Our solution

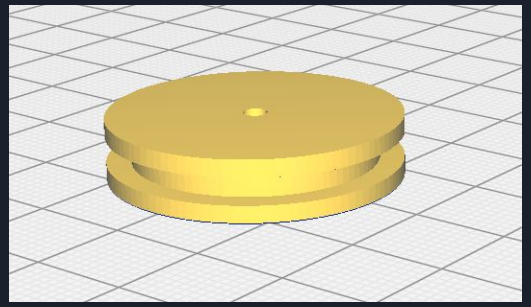


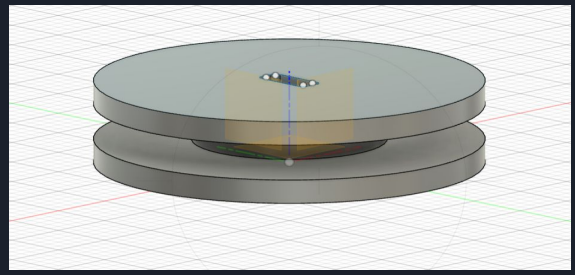
So this is what we finally came up with!!

The project we have created involves a ziplining model bird which *will* scare away the pigeon(s).

The idea behind this contraption is to deter pigeons away from balconies **without** physically hurting them.

CAD Models





Our list of materials

DC Motor

Ultrasonic Sensor

Relay

Arduino Uno

Jumper wires

3D printed cardboard parts

Thread

Rope

9V Batteries

Wood