

Allergy Spy Nose

NASAL ALLERGEN DETECTOR
S.J ESTHER WU

Background

Inspired by the concept of an **electronic nose** applied to environmental monitoring, this project originates from my own experiences with severe **nasal allergies**.

Living in a city with high pollen and dust levels has made managing my allergies a daily challenge, driving my need to constantly monitor the air quality and humidity in my home to reduce allergy triggers.



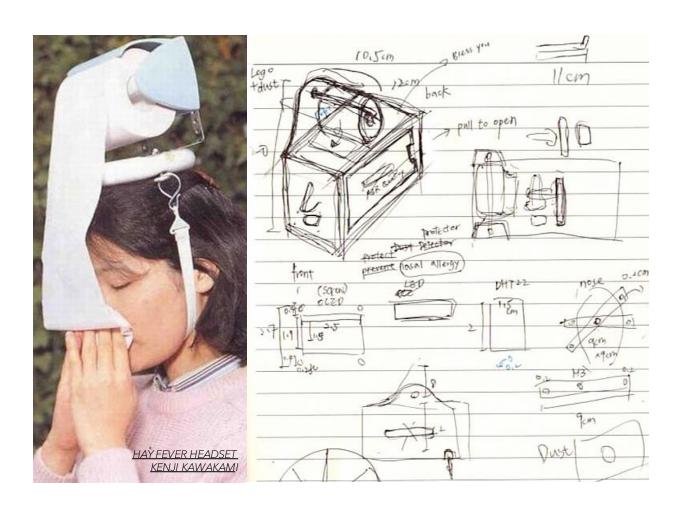
Crafting a Nose-Friendly Haven!

A device that can *detect common airborne allergens*, *humidity*, and *alert user to take preventive actions*, such as cleaning or ventilating the area. This will help in maintaining an allergen-free environment at home.



Allergy Spy Nose

- = TISSUE STAND
- + NASAL ALLERGEN DETECTOR



Circuit Diagram & Materials

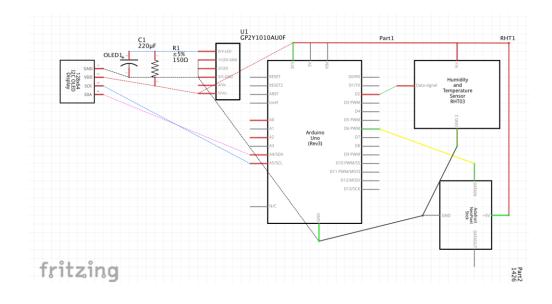
Microcontroller Board: Arduino Uno

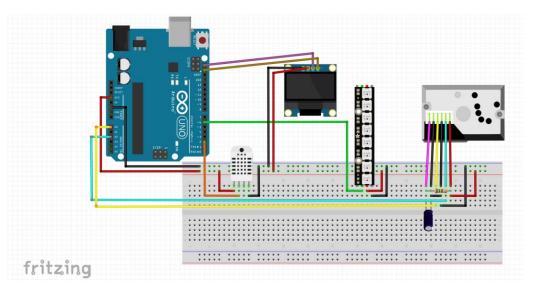
Sensors: Dust Sensor GP2Y1010AU0F, DHT22

Actuators: NeoPixel LED

Passive Components: Resistors, Capacitor

Display: OLED Display





Dust Sensor (GP2Y1010AU0F)

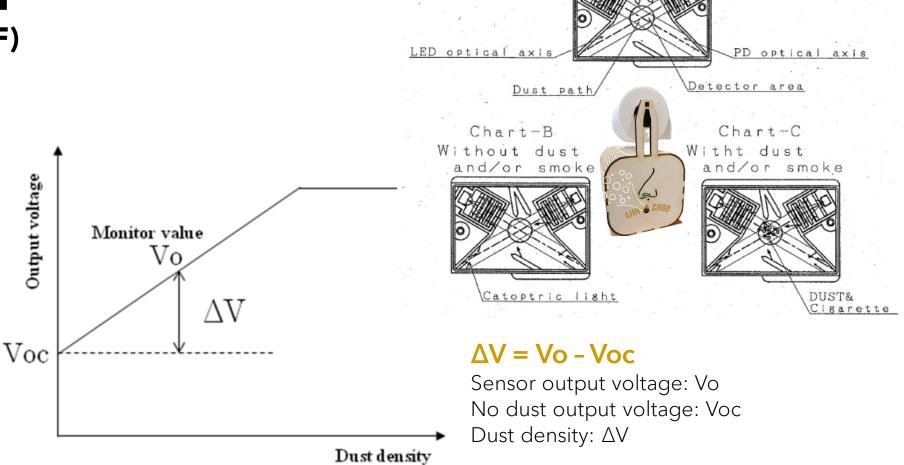


Chart-A

Detector

How does it work?





Enclosure

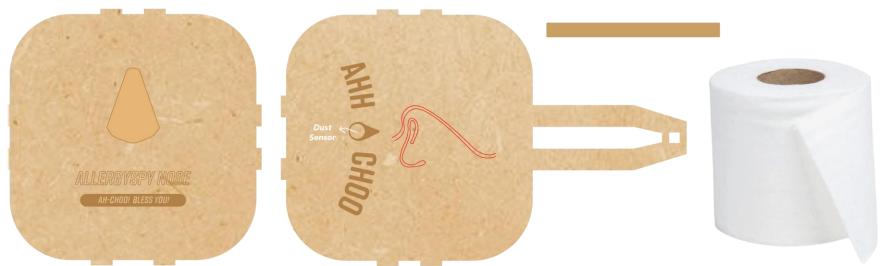
DISPLAY



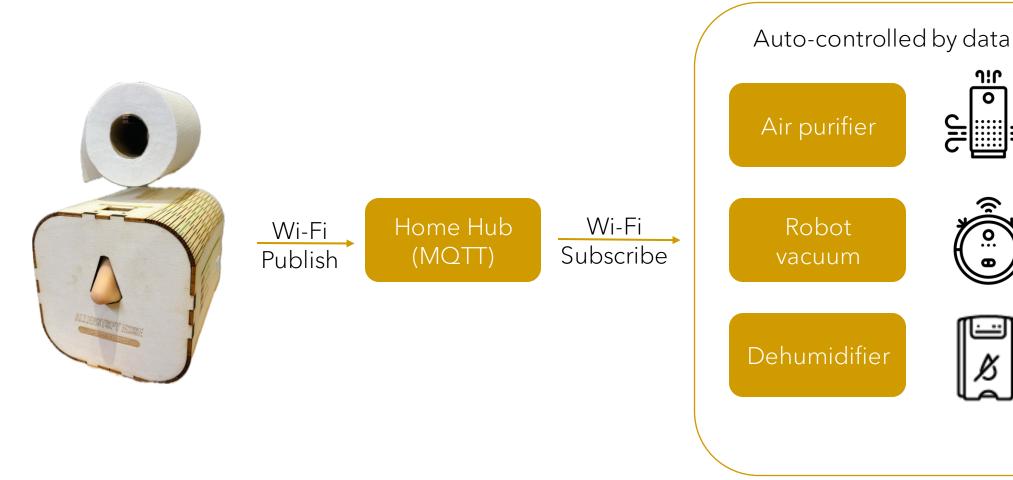


Enclosure

BEST FOR IN-DOOR
DAILY OBJECT



Future development



Bless you!

ALLERGY SPY NOSE

CRAFTING A NOSE-FRIENDLY HAVEN!

GITHUB

