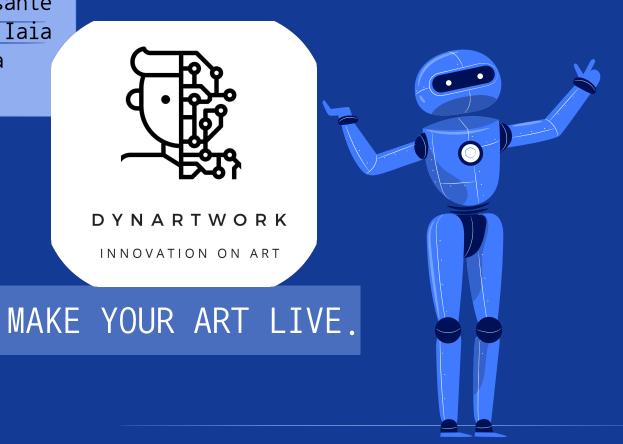
Francesco Colasante Emanuele Santo Iaia Simone Di Tanna



# **PROBLEMS**



The lack of dynamism of the artworks

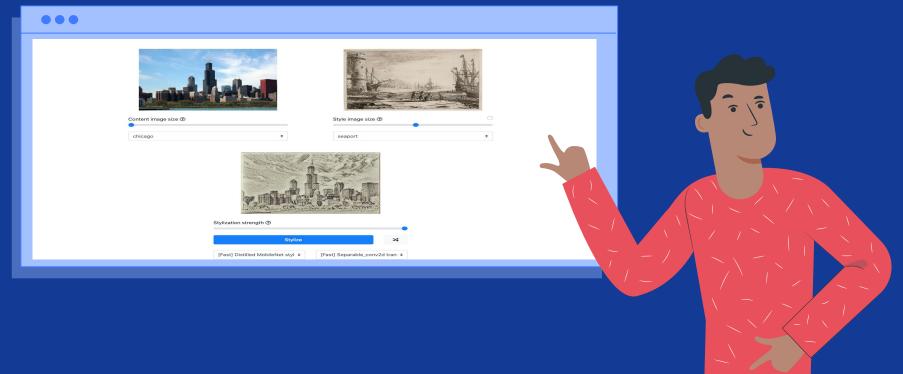
The role of artists is not highlighted

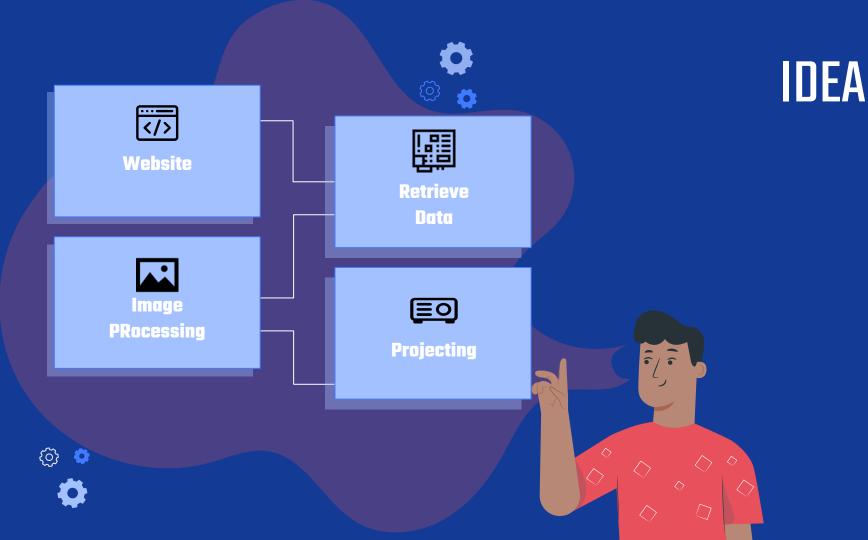
Poor interaction between the art world and technology

Poor opportunities for artists to emerge

## **EXISTING APPROACHES**

# **Arbitrary Style Transfer**





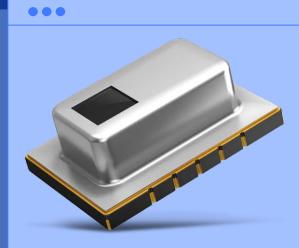
### HARDWARE COMPONENTS



## ESP WROOM 32

It is a series of low-cost, low-power system on a chip microcontrollers with integrated Wi-Fi and dual-mode Bluetooth.
Runs a RIOT-OS custom firmware forked by emcute.

#### HARDWARE COMPONENTS



#### Panasonic Grid Eye sensor

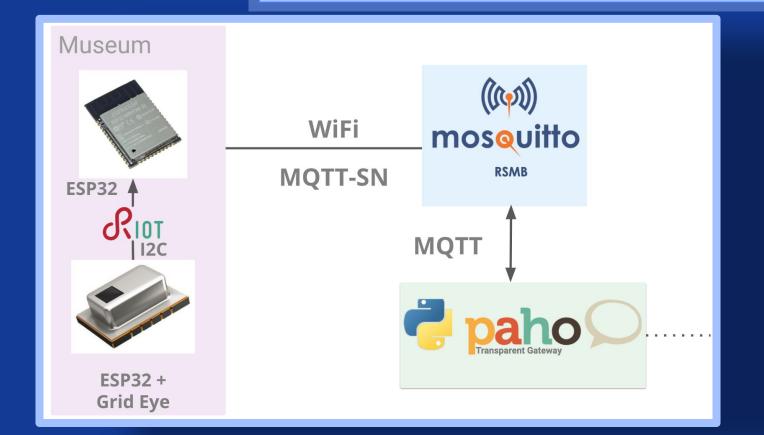
It is the input of our DynARTwork infrastructure. It feature 64 thermopile elements in an 8x8 grid format that detect absolute temperatures by infrared radiation.

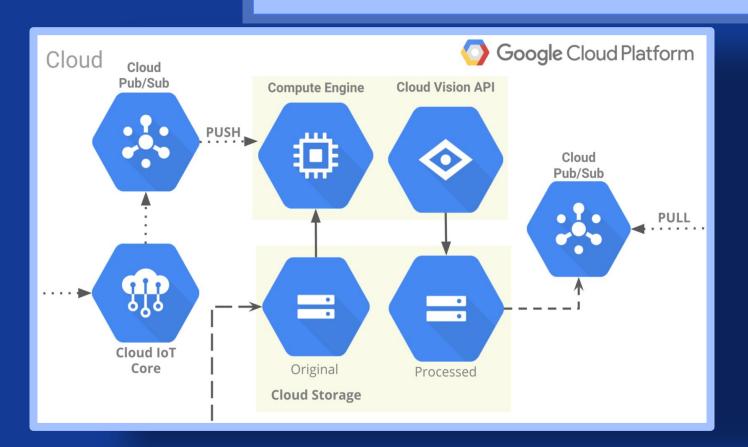
### HARDWARE COMPONENTS

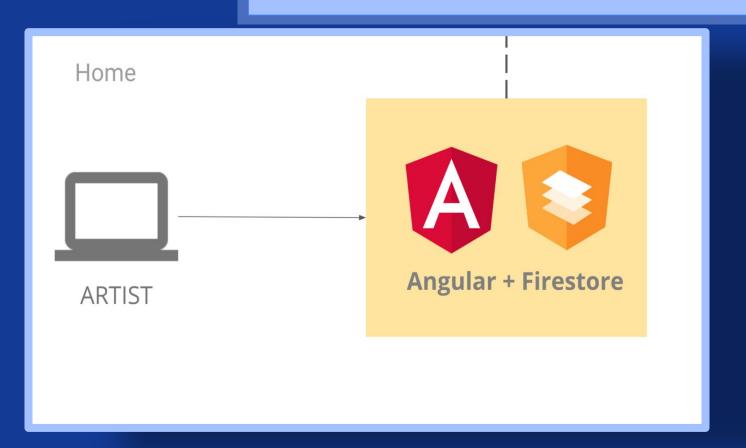


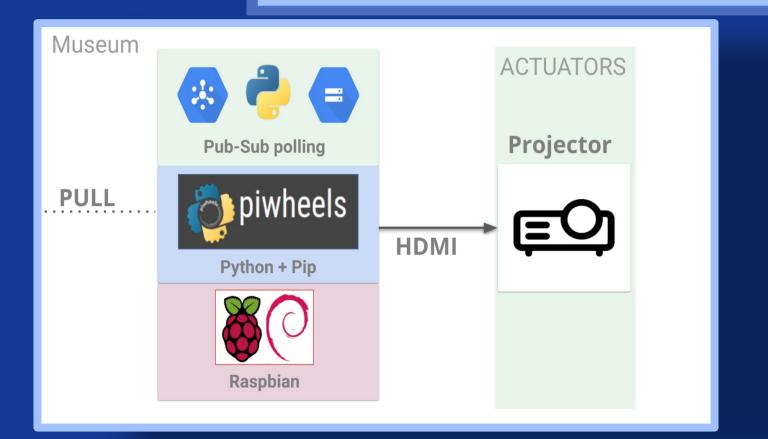
#### Raspberry Pi 0 W

Iit will allow, through the use of a python script, to download the processed image and display it through the use of the hdmi interface.

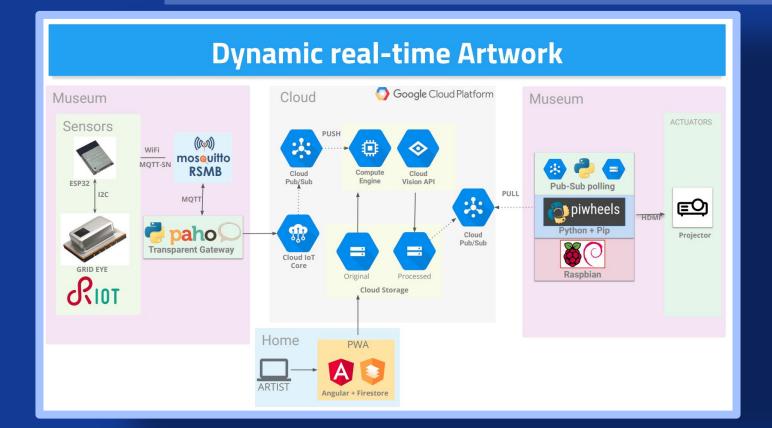




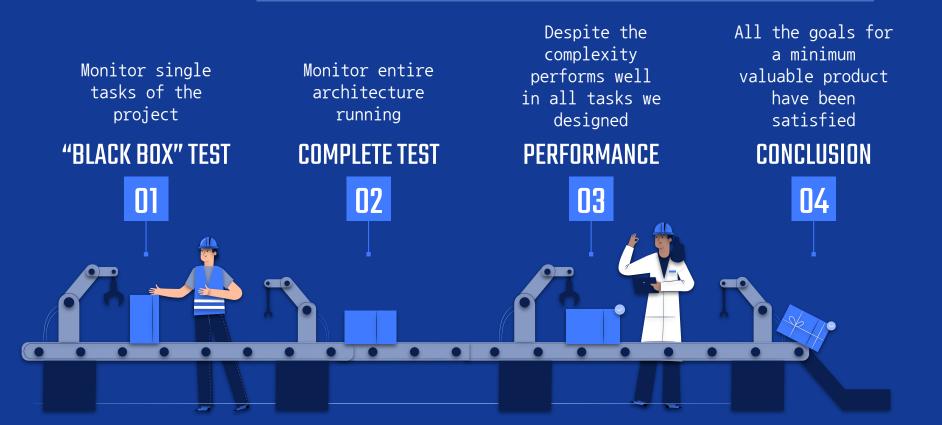




# ARCHITECTURE DIAGRAM



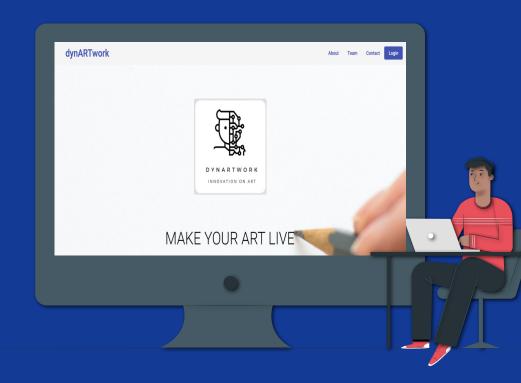
# **EVALUATION - TECHNICAL PART**



## **EVALUATION - USER EXPERIENCE**

#### **USER SATISFYING**

We gave the web application to about 20 people and we collected opinions about the difficulty of the actions and the satisfaction about the final result provided by our architecture.



# **FUTURE IMPLEMENTATION**

#### **EVALUATION**

- ONLINE PART (USER EXPERIENCE)
- CONVERSION RATE EVALUATION

#### **MACHINE LEARNING**

IMPLEMENT MACHINE LEARNING TO MARGE IMAGES



#### **WEBAPP**

**COMPLETE FLOW ON WEBAPP** 

#### **MVP**

COMPLETE HARDWARE
PCB + PACKAGE

# **THANKS**

#### **CREDITS:**

...

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https://dynartwork-277815.web.app/

