

# Wall-F

--IoT Project

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# Wall-F anatomy

Brain: Raspberry pi 3

Eyes: Pi camera

Ear: Microphone

Mouth: Mini speaker

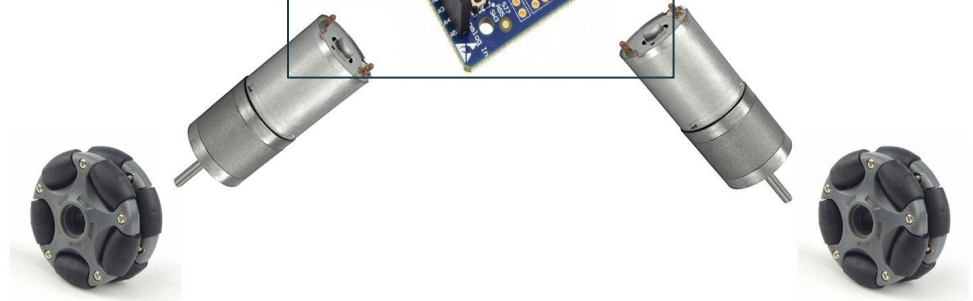
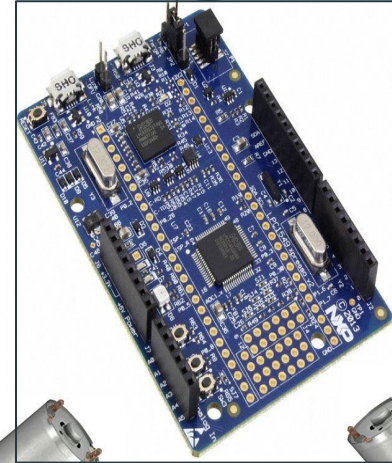
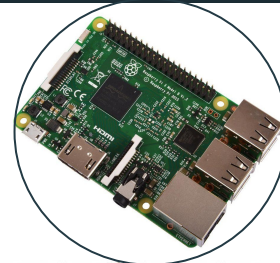
Nerves system: LPC1549

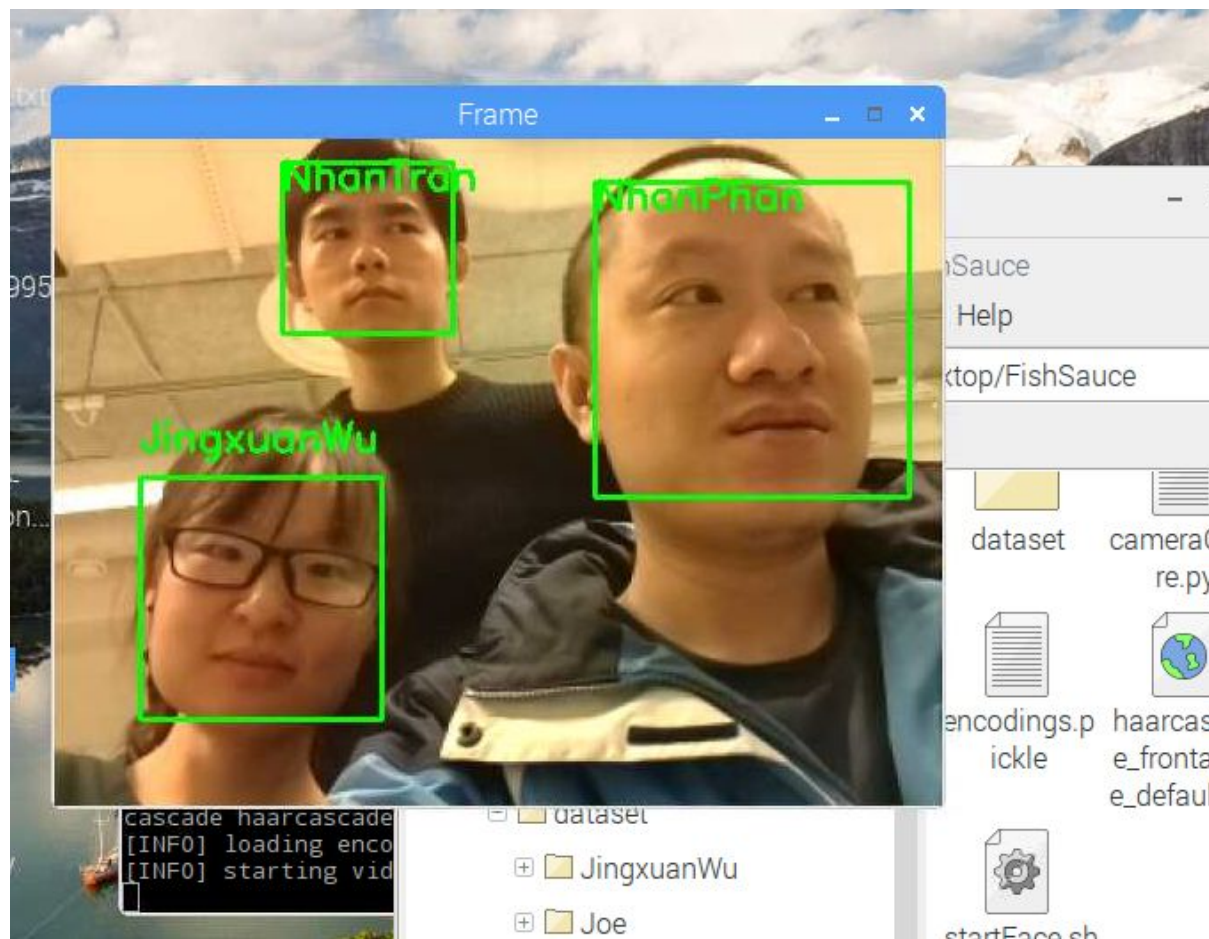
Legs: 4 DC Motors

Hands: N/A

Senses: sensors

Energy: Power bank + AA





# Minimum goal

Facial recognition with Raspberry Pi

Voice command by Google Speech Recognition

Speaking with package “Text to Speech”

Move the robot with command

All functions work together as one system



## What else?

Using Radio frequency and Wifi to control the robot

Using Bluetooth for indoor positioning

Carrying objects (with or without arm)

3D scanning with LiDAR sensor

Robot following object/person

Autonomous driving





