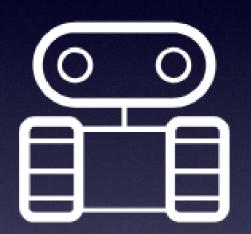
Multifunctional robot based on Arduino and Raspberry Shiyu Zhang

Programmed circuit modules with Arduino and Raspberry.

Realized connecting to the robot car via Bluetooth, sending instructions via Android application, obstacle avoiding, routes tracking and temperature alarming etc.

Used image recognition as face ID to start the robot and ASR to interact with user.





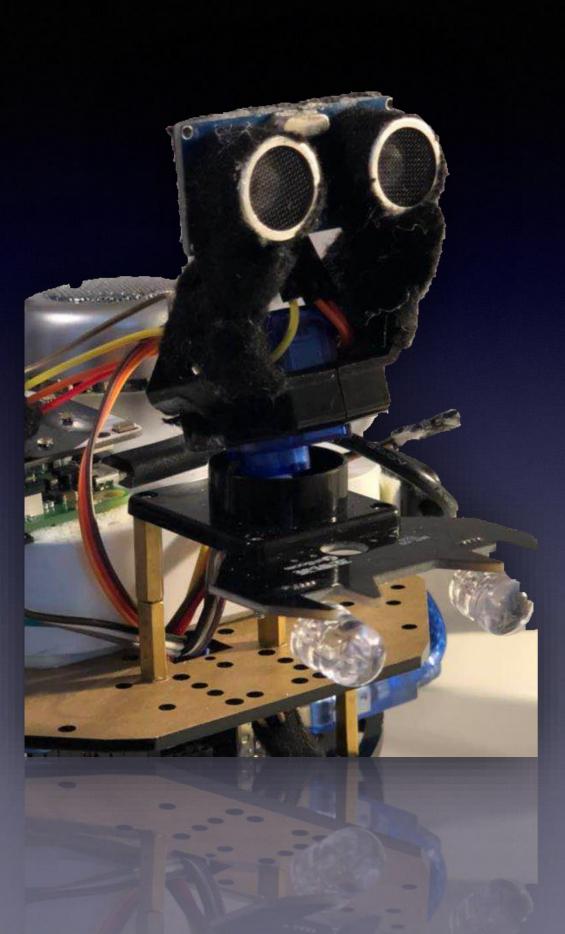
Truly Smart Robot



Reliable Controller

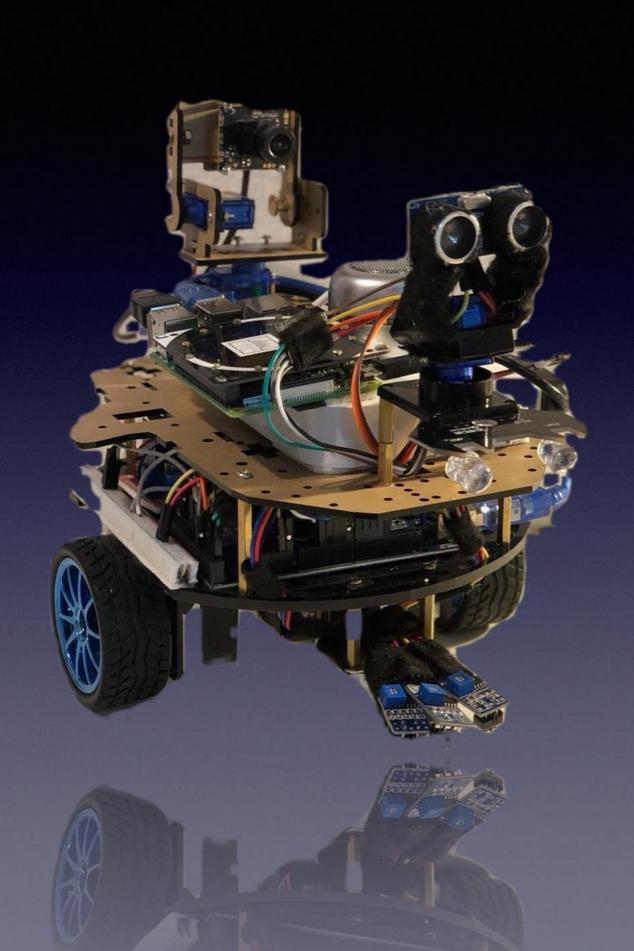


Safe and Eco Friendly



Ultrasonic sensor module

Detect the distance
Objects following
Obstacles Avoidance



Electronic Structure

Really tidy

Safe

Easy to maintain



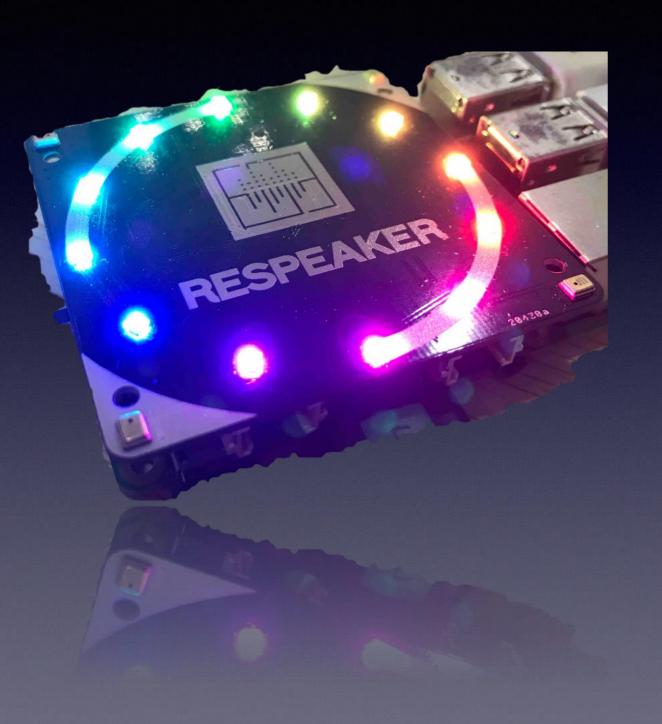
Appearance

Minions Stuart and Dave

On a giant panda

Designed for kids

A true companion is the one you can **TALK** with



Four mics array

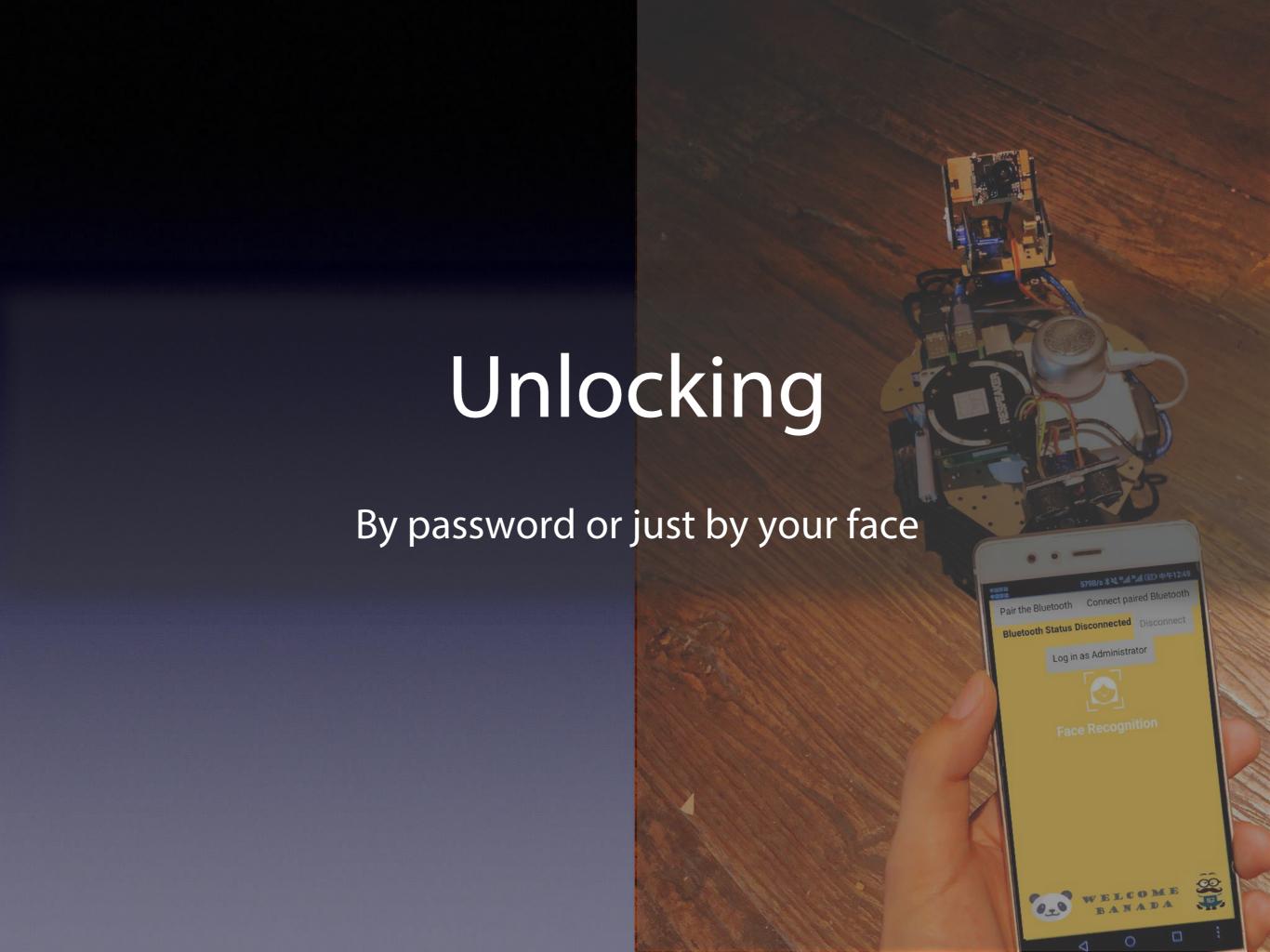
Record the voices more accurately
Intelligent voice recognition algorithm

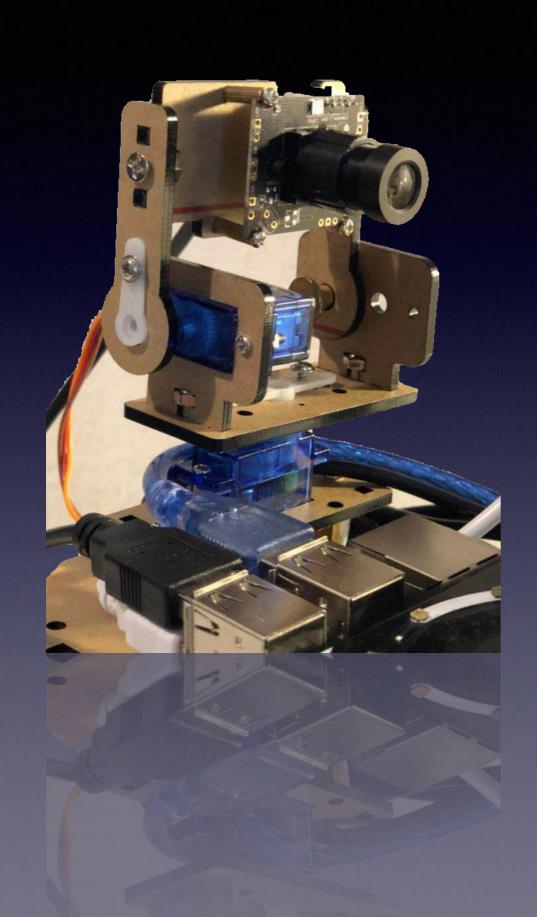
Our Design

Control by one thing we already have

CELL PHONE







300,000 pixels USB camera

Face recognition algorithm based on deep learning

Limited Local Resources

Both of Computational and Storage

Cloud Deployment

Deploy the algorithm and store the data on the cloud server

