

# Summary of the videos

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## < Android Things : Machine Learning Flowers >

They wanted to make the garden that is responsive and can interact with the user. They had the idea from the nature that flowers follow the sun. With this idea, they made their machine learning flowers to follow people. Moreover, this flower reacts to a user's facial expressions. For example, it will open the petals when user is smiling, or when user is winking at it, it will turn shy and turn pink.

The machine learning flower consists of the camera, the Android Things processor, the motors, the cables, the LED lights, the spine (printed plastic) and the vertebrae of the flower. The whole thing is powered by Android Things. The camera detects faces and then the algorithm that did the face detection controlled the motors in the flower body and slowly turned it to face people that were standing there. They use the face recognition software library that Google has, so that they can recognize faces quickly. The platforms that they have running in the Android Things system is quite capable. It has a multi-core processor and that is why it can be responsive to changes in a video stream.

## < Android Things : Byteflies >

Byteflies is a platform that tracks people at home and transmits health data through a wearable device and portable docking station. And this platform is based on Android Things. They want to make sure that everybody can use their platform. They collaborate with Android Things because Android already built a whole community for app development, and they made it possible that everybody who wants to build an app and bring it to the community can do so. The most important part of using Android Things is that we can utilize the infrastructure that is already set up. They don't have to worry too much about security, privacy and updates. Because Android provides all of them in a very good quality.

People need to attach small wearable device on their body for long period and then plug it into a docking station to connect to the cloud. And because of Android Things, it connects to the cloud really easily. They have the whole Google Cloud and the whole TensorFlow technology that is all embedded in Android Things. Since Android Things provides a very strong framework, they can just use it and build their own technology on top of that and more focus on their work.

## < Zelda Ocarina Controlled Home Automation >

He made a home automation system based on playing the ocarina. He used the internet connected Raspberry Pi and note recognition technology. With this, he can unlock or lock the door and activates pump to water the plants and call the phone and unlock the car and also reset the modules to previous state. It looks interesting and fun, because he can control the entire home by playing different songs with the ocarina.

## < Jarvis >

Mark Zuckerberg demonstrate the Artificial Intelligence based personal assistant on this video. He started building an AI to run our home. All he had to do is just talk or text to Jarvis via the app he built and it uses AI to understand him and figure out what to do. It also can recognize people at the gate and let them in automatically.