**MEMO**

DATE: June 7, 2015

TO: Mr. Li

FROM: Peng Yu

Subject: The application and development of the Smart Home

**INTRODUCTORY SUMMARY**

Today the technology develop very fast, many things in the science fiction have already came true. The Smart Home is one of them. People always hope living more convenient, so the appearance of the Smart Home is an inevitable result. As today the Internet and wireless technology get great development, Smart Home will become the important part of our life in the next few years. This paper is going to introduce what is Smart Home, the feature of the Smart Home, the development and the problems of the Smart Home in China.

**WORK COMPELETED**

* **THE DEVELOPMENT OF THE SMART HOME**

Through the research I find that Smart Home is a system which uses the integrated wiring technology, network communication technology , Smart Home-system design , security technology automatic control technology , audio and video technology to integrate all the facilities in our daily life. It will enhance house safety, and make our house more convenient, comfortable and more environmental friendly.

Smart Home is created under the influence of Internet. Smart Home through networking technology will connect a variety of devices in the home together (such as audio and video equipment, lighting, curtains, air conditioning control system control, security systems, digital cinema system, network appliance and three appearance etc.). It will provide many useful functions and methods , such as home appliance control, lighting control, curtain control, telephone remote control, remote control, indoor and outdoor the anti-theft alarm, environmental monitoring, HVAC control, infrared transmitting and a variety of programming timing control. Compared with the ordinary Home Furnishing, Smart Home not only provides the traditional living functions, but also helps the family to keep smooth exchange of information with outside, optimizes the people's way of life, helps people manage time effectively, enhances the security Home Furnishing life, even for saving energy cost .

As the fast development of the Internet every Internet companies want to expand their companies, so they pay more attention to the Smart Home. Today develop Smart Home is a popular for China companies, no matter the Internet companies or the traditional appliance manufacturers . The famous of them are Xiaomi, GREE, Huawei and so on. Today we already have many Smart Home facilities to choose, such as the smart plug, smart light, smart curtains.

* **PROMBLEMS OF THE SMART HOME**

### Because Smart Home has no uniform industry standard, many small and medium enterprises act of one's own free will, their products are not compatible with each other.

### Due to the companies did not do in-depth market research, they developed the products with advanced technology, but have poor practicability. Their products are out of touch with the market demand.

### Due to need to invest a lot of R&D funds, some small and medium-sized enterprises do not have the ability to continuous innovation, more difficult to form scale production caused by the high price of the product.

**Conclution**

Smart Home as one of the six important applications in the Internet of things, although it already have big or small problems, but its own characteristics determine the intelligent, humanization will become the mainstream of the future. The popularity of Smart Home will become the focus of the enterprises in China and other countries. With the Google test smart thermostats, try to involve in the Smart Home area, we can imagine that in the next few years the field of Smart Home will be more intense competition. And this for the Internet of things students means more opportunities and better future.

I would be glad to hear any suggestions you may have about my work on the rest of the project.