

Abstract

Home is the first small community we know after we have been born, but also as a place we live after running around for a busy day, it provides us a safe place to rest. As the development of science and technology, living environment are improved, too. In the *21st-century*, the requirements of people for living environment are not just about being well-fed and well-clad, but about the quality of life. Due to the convenience of technology, living environment and technology are expected to combine, those combination is a trend which can not be halted, and can greatly enhance the quality for human life.

Therefore, we study on a smart home monitoring system. Through this system, we can not only simply control the switches of appliances, but also can prevent gas leaks and it can also remind us the occurring of heavy rain, and even can provide us the power consumption of our home appliances. We hope through this study, we can let home no longer just offer us a place to rest, but let home become wisdom, enhance the quality of life, to make life more comfortable and convenient.