

## Smart home gives independence back to the disabled

It's very small things for us to turn on or off the switch in our daily lives. But it is really hard for the disabled. The people who are bound to a wheelchair or with limited movement have no ability to control their lives, even a light. Okay, my name is ZHANG HAOYU, and my major is computer science. Today I'd like to talk to you about smart homes for the disabled. After my presentation, I will be happy to take any questions. More than one billion people in the world live with some form of disability. In South Korea alone there are over 2 million persons with disabilities. Over 25% disabled people say that they don't have choice and control over their daily lives.

This is an important issue because everyone has the right to enjoy his life whether he is disabled or not. Their lives are inconvenient and hard. There are many problems that the able-bodied people have never considered. One problem the disabled face is position of the ordinary switch is designed according to the height of a normal person. It is a daily problem that people with disabilities are often troubled. People with limited movement have no ability to control aspects of their house.

The problem can be solved by smart home, smart home can maintain and empower their lives and provide them with independence and freedom from many things. It makes a really big difference for them to be able to live independently and not needing assistance at home when they are able to do those things on their own.

Above all, through the IOT and voice recognition technology, the disabled can control all aspects of their house easily by using smartphone or voice now. With smart home products like MicroBot Push, it is like a robotic finger that can be connected via bluetooth or automation service. The disabled can easily turn a manual switch into automatically turn on and off the connected lights. Furthermore, setting it up is easy and makes so many things practical. The disabled can be able to control the lights from the bed, or anywhere. It is easy for the disabled to give a better deal and sense of control over their traditional light switches. Not only that, the disabled can control their home by using voice. Many smart speaker like Amazon Echo or Google home provides not only informational services but also voice control over systems in the house when it connected to other smart home devices. It is really helpful for people with disabilities to have the ability to control their lives start with control the household devices of their surroundings.

In conclusion, the smart home and assistive technology possibilities empower the lives of the disabled. With all of the physical and emotional stress they have had to endure, the smart home gives independence back to them and helps give them strength and hope for the future.