Smart house stuck in '70s

evolved / Simson L Garfinkel but technology behind it hasn't Home automation sounds swell,

all, but hey, I was only 15. go to sleep. Not very useful, over automaticaly when I was ready to a button ard have lights dim, have have the whole thing shut down ny stereo switch on, and then "HEN I WAS IN mated my bedmy bed and press room. I could lie in 10th grade, I auto-

ic things were kind of dunky. but it was 1980 and most electron control device that worked by raswitch the stereo, and a remote iio. A lot of the stuff was clunky, could control lamps, a special apso-called "X10" equipment from a pliance module that I used to wall, a few plug-in modules that light switch that I put into the company called BSR. There was a hind my scheme was a bunch of The technological magic be-

enough light switches and controlsells X10 equipment) and bought lers to do my entire house. place, I went nog wild. Rather of the dorms and got my own with me. Then when I moved out years later I took my X10 stuff went to Rado Shack (which also har just sticking to my bedroom, When I went to college a few

turn off all of the lights by hitting hours to install was that I could chase and took more than a dozen cost hundreds of dollars to purture of the entre system, which Probably the most useful fea

> The year was 1989. a single button labeled "all off."

teenager, except now it is all label ing around with when I was a same equipment that I was play pany is selling more or less the into the X10 business. The combecome the latest company to get Now it's 1998, and IBM has

household wire, letting you turn lights on and off, or dimthem. sends digital messages through runany more wires. The system cheap and it works. X10 is great if you want to control a lamp from a ed with IBMs big blue letters. ight switch and you don't want to X10 has going for it is that it's Just about the only thing that

on at the same time. computer control can follow "rou tines,' so when you turn on one when you go to sleep. And the you come home and turns off control lets you turn every light in ight, lots of other lights will turn that automatically turns on when your house into a timed switch computer control. The computer back devices, and even a fancy motion detectors, thermostat setremote controls, you car get X10 Besides the switches and the

one or two seconds to respond. Push a button and the light takes annoying. The system is slow: But the X10 technology is also

Program your house, making lights turn on and off at certain times. IBM's Nome Director lets you

> on and off each other's lights. sible that you will soon be turning if your neighbor uses X10 it's posand 16 "light codes," which means There are only 16 "house codes"

live in an automated house. nately, most people don't want to for "home automation." Unfortu-X10, says Frankston, is designed that is completely X10-controlled who happens to live in a house the personal computer revolution Frankston, one of the pioneers of lems as well. Just ask Hob And there are deeper prob-

on at the same time every day?" that you want your lights turned asks Frankston. "Is your life so predictable

stuff has sensors. It's good for lit-Frankston, is that "none of this The real problem, explains

mation, says Frankston. Instead, they want houses that are responthe more than 'gee whiz' toys." People don't want home auto-

the lights turned off now?" cuse me, would you like to have should call you up and say "Exand then one cay you leave the lights on by accident, your house

probably could have saved twothirds of the expense. derstood the layout of my house, my electric consumption and uncomputer that actually monitored many computers. But with a home sult of two air conditioners and too got my bill for July - \$150, the redifference is electric bills. I just siveness could make a big Another place where respon-

tween the indoor temperature and depending on the differential bethe outdoor temperature. turn on the attic fan on occasion, shut down the air conditioner and An even smarter system might

hind X10 is hopelessly stuck in the a "smart house" are still more 1970s. Meanwhile, overly ambi-IBM's effort, the technology bethan a tecade away. Despite Unfortunately, dreams of such

tious industry efforts such as

off before you leave your house, sive. If you always turn the lights that the current generation of while working at Microsof. - is Home Plug & Play committee going nowhere. The reason, says Frankston – who served on the "Home Plug & Play" seem to be CEBus (www.cebus.com) and

home-automation schemes are too

voice-recognition unit, I will be electronic household. able to create a fully custonized ing a few sensors and perhaps a and into my home PC, and by add conditioner will all have network jacks. Ey plugging them together microwave, dishwasher, and air Ten years from now, he says, my mately it will be the Internet that complicated to work in practice. hes our home appliances together Frenkston thinks that ulti-

actually build this equipment have the vision and the daring to for a home appliance company to What's really needed, though, is can be built for less than \$10 tocols, and a network interface enough to speak the Internet prowith computers that are powerful and air conditioner are equipped ready my microwave, dishwasher It's not such a far stretch: AJ-

and entrepreneur can build the product based on the appliances technical details so any hobbyist ly, that company needs to provide And perhaps most important-

Frankston is right. X10 has great years it's still not terribly practi-'gee whiz' appeal, but after 20 But I'm not holding my breath

accessories/homedirector/ about IBM Home Director at x10.com. You can learn more http://www.pc.ibm.ecm/us/ X10's home page is at www

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