Home Automation

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Disclaimer

• I am a hobbyist
• I have attachments to NORTHSELECT ENGINEERS PVT. LMT. (engineering and contract) companies. Its many working project is in the field of automation system area.
• company has well option for electronics and electrical as well as instrumentation and control.
What is Home Automation?

- “home automation”
- “smart homes”
- “intelligent houses”

- Automating aspects of your home to make things more efficient and/or enjoyable.
My Introduction to HA
Since 1985, Home Automation, Inc. (HAI) has been the leading manufacturer of home control products for homeowners and businesses around the world. More than a million HAI products have been installed in over 80 countries through HAI's worldwide network of Distribution Partners and Dealers.
TASK

• Security
• Fire protection
• Surveillance
• Lighting
• Energy Management
• Entertainment
• Motion detectors
Security

• With Home Automation, the consumer can select and watch cameras live from an Internet source to their home or business. Security cameras can be controlled, allowing the user to observe activity around a house or business right from a Monitor or touch panel. Security systems can include motion sensors that will detect any kind of unauthorized movement and notify the user through the security system or via cell phone.
Fire protection

- smoke detector detects a fire or smoke condition, then all lights in the house will blink to alert any occupants of the house to the possible fire. If the house is equipped with a **home theatre**, a home automation system can shut down all audio and video components to avoid distractions, or make an audible announcement. The system could also call the home owner on their mobile phone to alert them, or call the fire department or alarm monitoring company.
Surveillance Automation

Keep a watchful eye around your home, even when you’re away.
SECURITY CAMERA
Ensure a Secure Home

- Cameras can be viewed on HAI OmniTouch Touchscreens, over the Internet, or on your web-enabled phone. When the doorbell rings or motion is detected outside, the video feed can automatically appear. Want to invite your guest in?
- Simply press and hold the camera selection button to open the door or gate
Lighting Automation

- Extinguish all the lights of the house
- Replace manual switching with Automation of on and off signals for any or all lights.
- Regulation of electric illumination levels according to the level of ambient light available.
- Change the ambient colour of lighting via control of LEDs or electronic dimmers.
- Natural lighting control involves controlling window shades, LCD shades.
Energy Management Automation

• By controlling temperature and lighting based on time of day or occupancy, HA products can reduce energy costs. HA home control systems offer convenient control of energy management with Touchscreens, the Internet, web-enabled phones, or the home telephone.
Entertainment Automation

- A revolutionary way to enjoy all your media, all around your home
Set the Mood, Room by Room

• With Hi-Fi by HA, share your music throughout your home. HA’s audio system can be controlled wirelessly via remote control, wireless.
• Touchscreen, or cellphone for convenience.
• HA’s unique Remote Input Modules let you easily plug into sources you already own. It’s simple and easy to update to the newest music source.
• No audio rack or expensive proprietary components required.
Motion Detectors

- Generally one in each room.
- In some rooms, the lights are turned on automatically if motion is detected and it’s dark. In all rooms, the lights are turned off if no motion is detected for a user-defined period of time.
Motion Detectors

• Can double as sensors for an security system.
CONCLUSION

• I learned a lot in the process of writing this article, and I hope it will encourage many of you to consider bringing HA into your own lives. I'll admit that wiring up light switches is not the easiest of tasks for someone who hasn't done it before, but the plug-in devices are a snap to set up and make for an easy entry-point to working with the technology.
ANY QUESTION
THANK YOU