

## Home Automation with the Amazon Echo (Alexa and Friends )



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## “Little Alexa” The DOT



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## What is Home Automation?

- ◆ The ability to take ordinary daily tasks and have them occur automatically or by voice commands using a device such as Alexa, Google and now Apple.

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## What Tasks can be Automated?

- ◆ Turning lights on and off
- ◆ Opening your garage door
- ◆ Adjusting the heat (with a Nest Thermostat)
- ◆ Making a telephone call
- ◆ Controlling mood lighting
- ◆ Turning anything with a plug on or off
- ◆ Getting answers to questions

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## How Does Alexa Do What She Does?

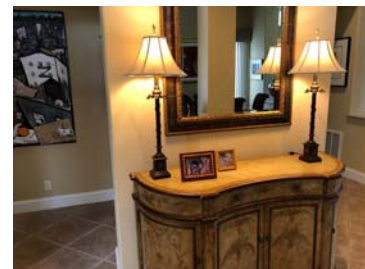
- ◆ Primarily through artificial intelligence
  - ◆ (There is no person inside the box)

### Artificial intelligence is :

The theory and development of computer systems able to perform tasks that normally require human intelligence; such as visual perception, speech recognition, decision making and translation between languages.

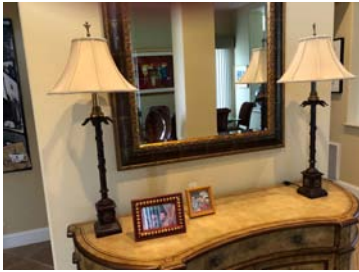
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## Alexa Can Turn On Your Hall Lamps



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## Alexa Can Turn Off Your Hall Lamps



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## She Can Connect To A Camera



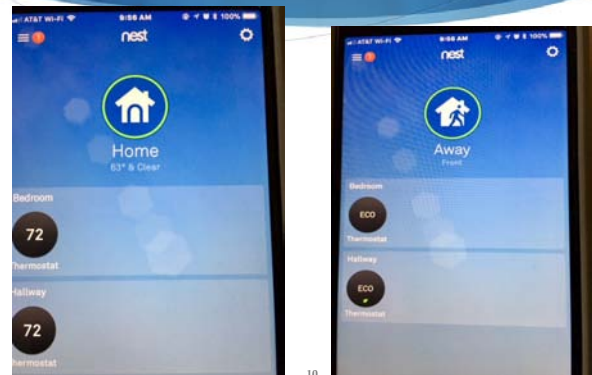
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## She Can Control my Heat & Air Conditioning



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## Control Your Home Temperature from Anywhere



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## Alexa Can Lock and Unlock Your Door



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## Typical Questions For Alexa

- ◆ Alexa what's the weather today?
- ◆ Alexa what's the time in London?
- ◆ Alexa who was the star in "Gone with the wind"?
- ◆ Alexa play Barbara Streisand
- ◆ Alexa, louder
- ◆ Alexa Stop

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## Things to Try

- ◆ Alexa, what will the weather be at 5pm today?
- ◆ Alexa, open fireplace sounds
- ◆ Alexa, what day of the week is January 16?
- ◆ Alexa, what NBA games are on tonight?
- ◆ Alexa, who is my congressman?
- ◆ Alexa, play jazz
- ◆ Alexa, what's the tallest building in Chicago?

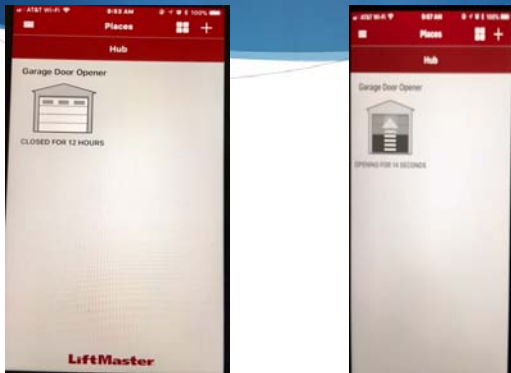
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## More things to Try

- ◆ Alexa, flip a coin
- ◆ Alexa, add to my shopping list
- ◆ Alexa, play my shopping list
- ◆ Alexa, turn off the hall lamps
- ◆ Alexa, turn up the heat 2 degrees
- ◆ Alexa, start my car

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## Control Your Garage Door



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Just Plug in a “Wemo” switch to operate any appliance



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Wemo Plugs Can Control Anything You Can Plug In



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## Control Your Circulator



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## Security Lights



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## See Who is Ringing The Bell



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## Echo Show Lets You See Information



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## View Photos



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## Security Issues

- ◆ Can be Hacked
- ◆ Remote tracking
- ◆ Monitor your motions in your home

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## The Future is Promising

- ◆ More and more manufacturers are developing interconnectivity with Alexa and other devices such as coffee makers, refrigerators
- ◆ Apple just introduced HomePod. The reviews say to wait for the second generation to let them work out the bugs!

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