Smart Homes as Assistive Technology 101

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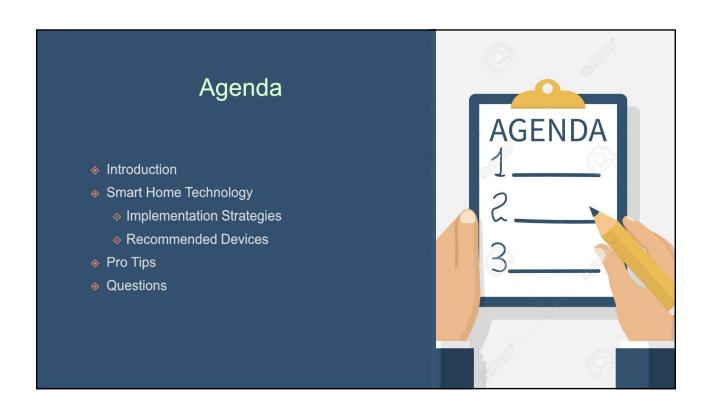
Easterseals Crossroads - Innovative Assistive Technology

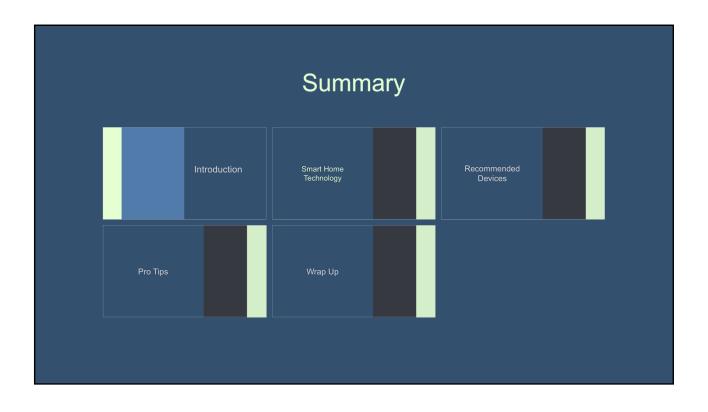
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I have no Relevant Financial Relationships or Relevant Non-Financial Relationship to disclose.

Disclosure





Introduction



Who I Am

- ♦ Maine
- ♦ Air Force
- ♦ Georgia Tech



Quotes to Think About

"Innovation is not a random process. When it works, it works because someone has identified a real need, and found a way to bring new ideas or new technologies to bear on that need."

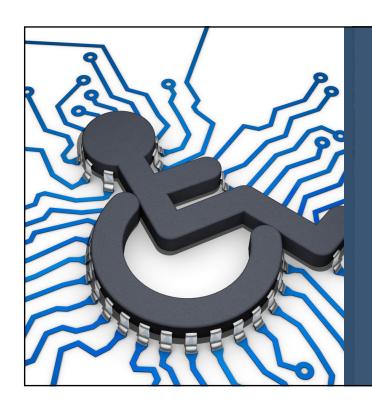
~Lewis W. Lehr

"Do not let what you cannot do interfere with what you can do."

~John Wooden

Smart Home Technology





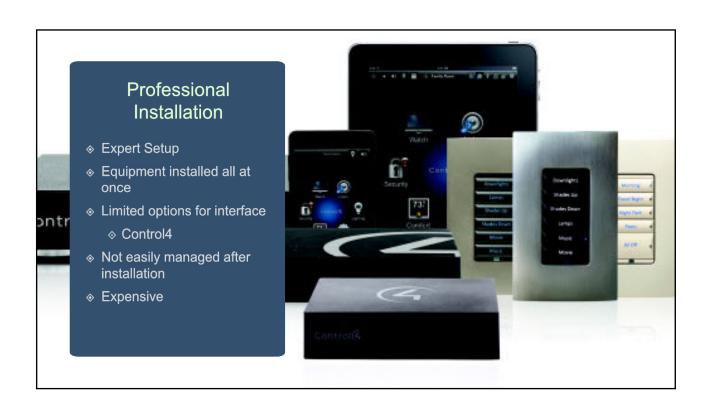
How is this Assistive Technology?

- Independently Control Environment
- ♦ Maintain Safety
- Social Connectivity
- ♦ Entertainment

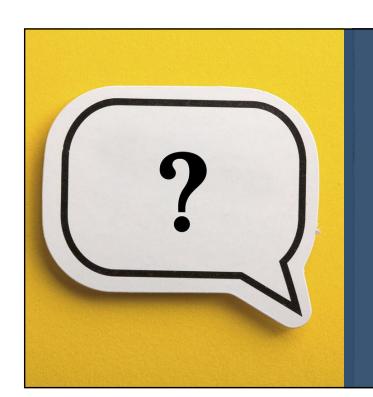
Smart Home Tech in the Workplace RADICAL HOW TO BE A Bring your best self to work CANDOR GREAT BOSS ♦ Your productivity is directly affected by the rest of your life experience ♦ Sleep ♦ Hygiene ♦ Independence WILL HELP YOU WITHOUT INSPIRE TEAMS TO ♦ Social Integration LOSING YOUR HUMANITY DO THE BEST WORK OF THEIR LIVES' Many solutions can be used in the office SHERYL affordably! SANDBERG

Implementation Strategies









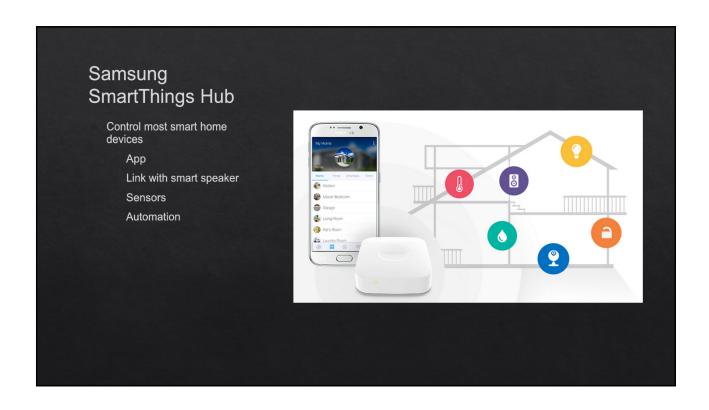
So which is best?

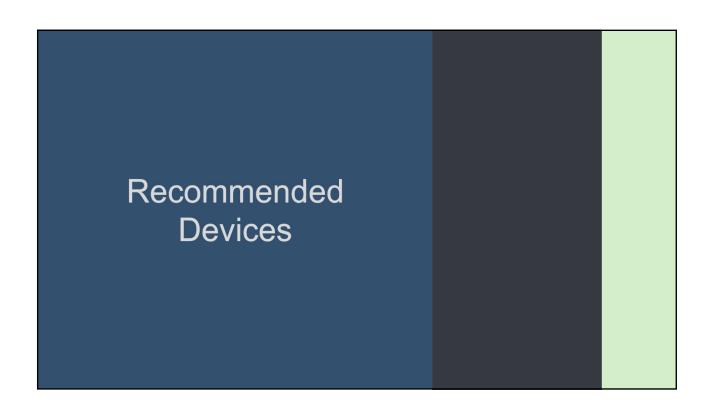
- Prioritize what you want to access first
- ♦ Learn it, use it, make it a habit
- Build from there
- ♦ The primary barriers are
 - ♦ \$\$\$
 - ♦ Technical Expertise

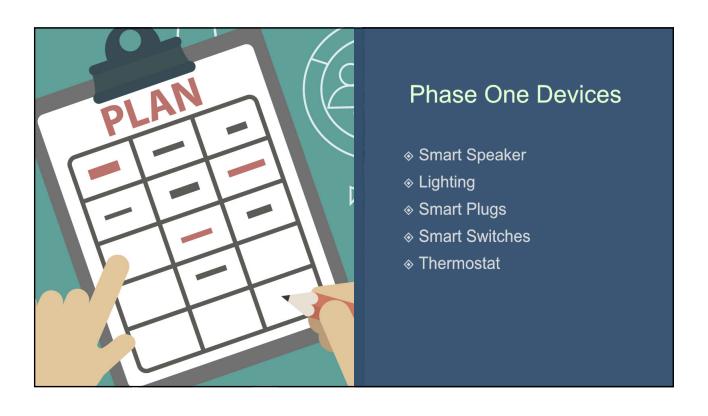


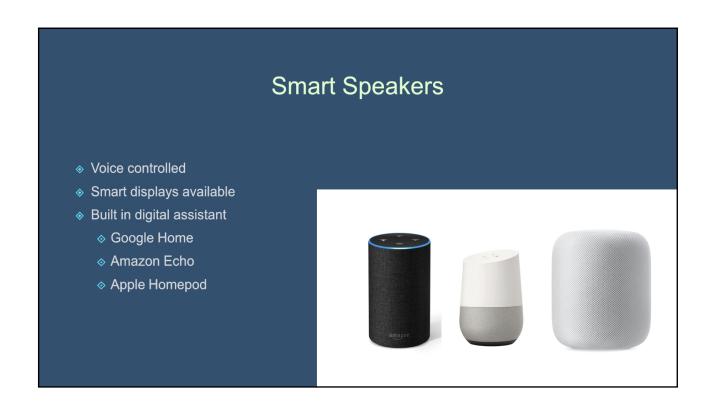
Hub vs Wifi

- WiFi Devices
 - ♦ Less initial cost
 - High number of devices can cause WiFi interference
- ♦ Hub
 - ♦ More upfront cost
 - Creates own wireless network separate from WiFi



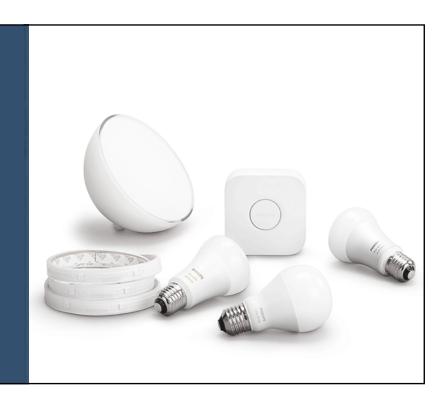






Lighting

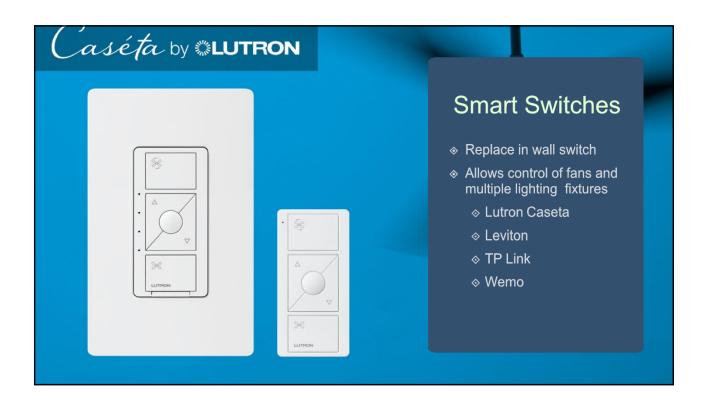
- ♦ Phillips Hue
 - ♦ Standard Bulbs
 - ♦ White
 - ♦ White Ambiance
 - White and Color Ambiance
 - ♦ Other standalone lights
 - ♦ Hue Go
 - ♦ Light Strips
 - ♦ Outdoor Fixtures
 - ♦ Indoor Fixtures
 - ♦ Hub Recommended



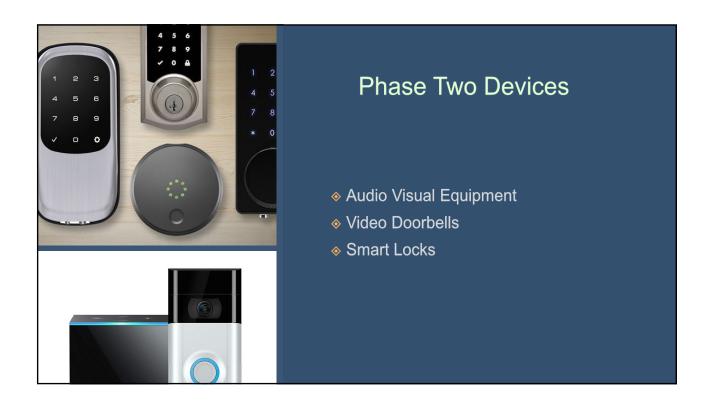
Smart Plugs

- ♦ Controls power at the outlet
- Great for devices that operate once they are plugged in
- ♦ Emergency Shut Off is possible
 - ♦ Samsung Smart Plug
 - ♦ TP Link Kasa Smart Plug Mini
 - ♦ TP Link Kasa Smart Power Strip











Video Doorbells

- Normal Doorbell Function
- Alerts sent to device
 - ♦ Phone
 - Smart Speaker
 - ♦ Check video on Smart Display or TV
- Face Recognition
- Motion Detection
- Solutions
 - ♦ Nest Hello = Google
 - ♦ Ring = Amazon



Smart Locks Allows control of personal security App Voice Schedule Other Solutions Schlage Yale August



Phase Three Devices

- ♦ Blinds
- ♦ Adjustable Bed
- Automatic Doors
- ♦ Other

Blinds Automated Schedule Manual Control Voice Control Solutions Soma IKEA MySmartBlinds

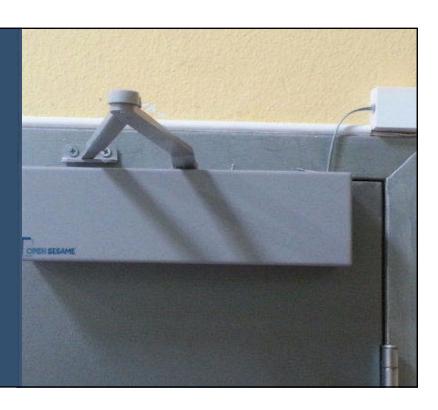
Adjustable Bed

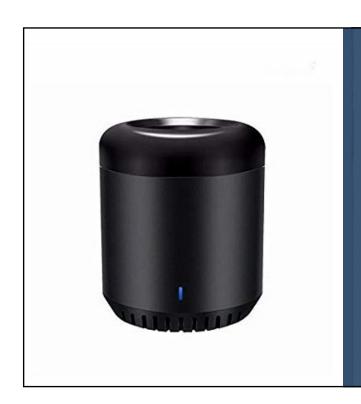
- ♦ Incremental Adjustment
- ♦ Memory Settings
- ♦ DIY Voice Control
- ♦ Built In Voice Control
 - ♦ ErgoMotion
 - ♦ GlideAway
 - ♦ BeautyRest
 - ♦ Others



Automatic Doors

- ♦ Garage Door Openers
 - ♦ Chamberlain's MyQ Smart Garage Hub
 - ♦ Garadget
- Other Doors in the Home or Workplace
 - ♦ Open Sesame
 - ♦ Portal
 - ♦ DIY Solutions

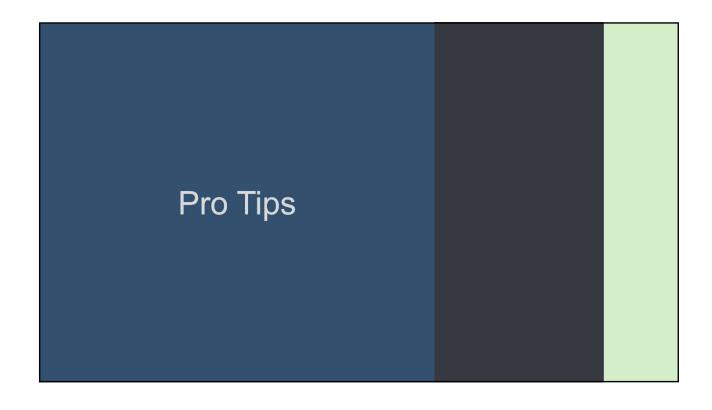


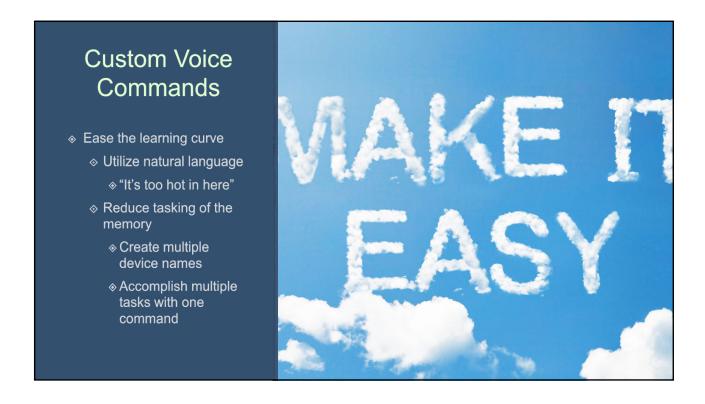


Other Devices

- ♦ Broadlink
 - ♦ IR and RF Control
- ♦ Bidet/Toilet Seat
 - ♦ Toto Washlet
- ♦ Heated Floor
- ♦ Towel Warmer

Phase Four "Upcoming" Devices Shower/Bath Faucets Other Major Appliances Kohler Moen Samsung Others Automotive Elevators?













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