





About Us:

The husband and wife team of Kirby Smith and Suria Nordin started SunKirb Ideas, LLC after Suria was injured in an accident while on vacation July 2014, leaving her a quadriplegic.

To learn more go to:

<https://youtu.be/ekQSQjFMy4M>



Why:



During Suria's recovery from surgery, realizing the extent of her injuries, Kirby and Suria were faced with having to renovate their home to accommodate Suria's disability. There was no single source to help with technology that could help them in their home. They decided to provide that service to others.

Brief History

Electric Power Drives Home Automation

- Smart Home products fall in the category of home automation. (Therapists often call these devices *environmental controls*.)
- Products first appeared in the early 1900s as electric power in homes became widespread.
 - Included refrigerators, washing machines, dryers and other machines we now consider standard appliances.
- In the late 70s, a standard was developed called X10 which allowed products to talk to each other.
 - Early assistive technology was based on this protocol -- allowing people to remotely control household devices.
 - Devices primarily used wires, and later radio signals, which evolved into a more robust communication protocol.

Brief History

Wi-fi Drives Home Automation

- By 2012, smart phones and tablets become readily available.
 - Devices could be controlled using these phones: apps allowed developers to embrace wireless technologies (and abandon creating the physical remote control.)
 - X10 is supplanted by Zigbee, Z-Wave, Bluetooth and Wi-Fi
- In 2015, while Apple's Siri was most well-known, Amazon Echo's open platform attracted hundreds of manufacturers to use it for voice control. Google Home and others followed.
- Today, with artificial intelligence (AI), voice control, smart phone interfaces and cheap (or free) apps, the global smart home market is likely to experience significant growth of at least 14.5% between 2017 and 2022 and reach sales of \$53.45 billion.

Everyday things working smarter for you!

Our Mission :

- Keep it simple but smart
- Everyone uses it
- Keep it relatively inexpensive
- Use off the shelf regular consumer products
- Simple to support, almost no training needed.



How does it work:



- Voice control – Amazon Echo Show
- Smartphones and Tablets
- Ring, Nest (examples of devices that control temperature, doorbells)
- Devices can be used as an intercom & can make calls. Also adds a layer of security.
- Devices can act as a virtual assistant -- managing calendars, lists and other needs.
- Devices can provide entertainment (music, reading books, jokes, news, find recipes).

You control your front door

Outdoor Camera (\$200) Remote monitoring via smart device or computer. Built in mike for communication. Monitors motion and sound.



Smart Locks (\$190-\$225) Keyless entry, notification of entry, remote control of locks using smart device. Notification can be sent when used.



Echo Show (\$85-\$220) Voice-activation can control the lock. It's possible to see who's at the door and control the doorbell and automatic door opener.



Automatic Door Opener (\$2,000) Doors can be voice controlled



Door bell (\$200-\$240) Smart doorbells shows who is at the door and allows remote communication via computer or smart device. Motion detects for security and provides alerts.

**TV Entertainment
Voice Control (\$120)**
Always on hands free
complete voice
control of TV, Cable,
Sound bars & other
video entertainment.



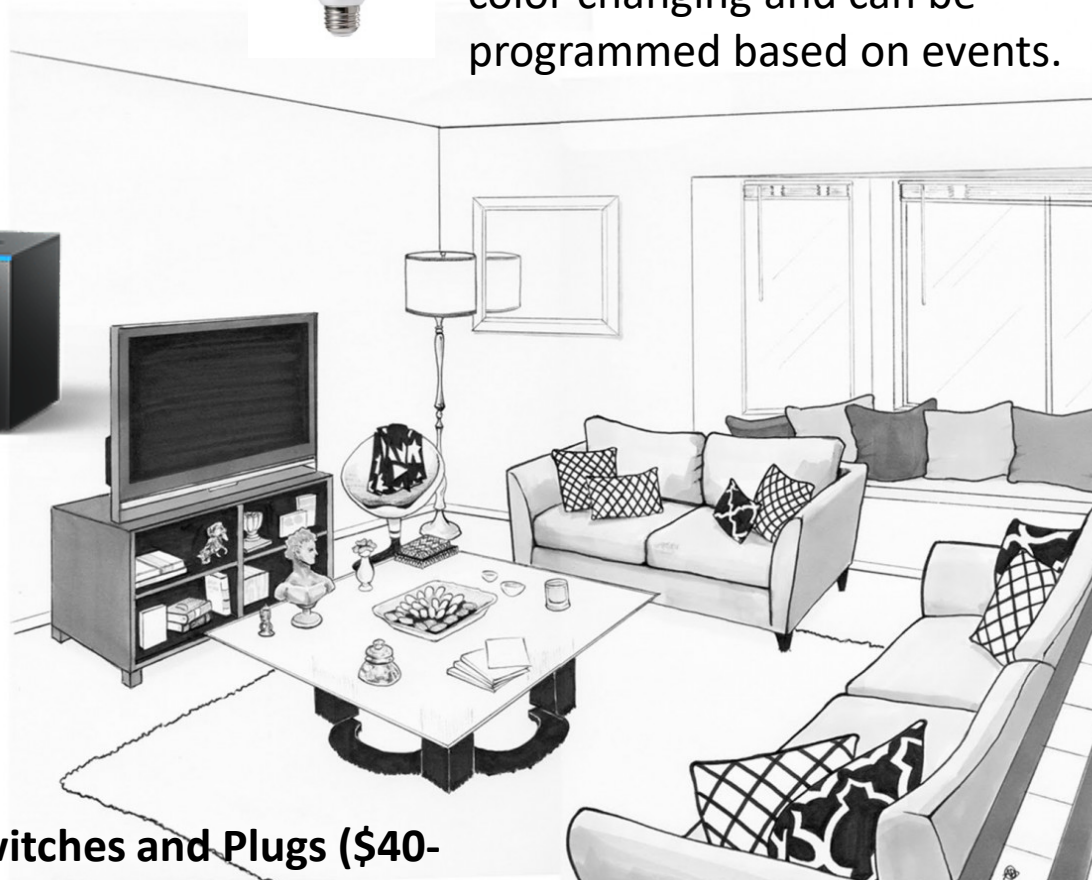
Smart Light Bulb (\$15) Voice and
smart device controlled, dimmable,
color changing and can be
programmed based on events.



Thermostat (\$250)
Voice controlled
and will learn,
automatically
adjusting
temperature
throughout the day.



**Smart Switches and Plugs (\$40-
\$90)** Voice and smart device
control of lights and appliances
and can be programmed based on
events.



You control your living space

Let people know you need them



**Innovative ways
To use your phone.**
We teach you new
ways to use what you
already have.



Protect (\$100) Detects
fire, CO2 and motion.
Will alert others
remotely with
messages to send help.



**Voice Activated
Emergency Signals (\$250)**
Activate sirens and call
bells with your voice. Can
activate based on events
like intruder detection.



**Intercom and Video calling
anywhere in the U.S.**
Echo and Google Home can
be used to make calls and
intercom.

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Voice and smartphone control of your home

Indoor Camera (\$40-\$200) Remote monitoring via smart device or computer. Built in mike for communication. Monitors motion and sound working with Protect and Nest to provide security and send alerts if there is intrusion.



TV Entertainment Voice Control (\$120) Always on hands free complete voice control of TV, Cable, TiVo, Netflix, Hulu and other video entertainment.



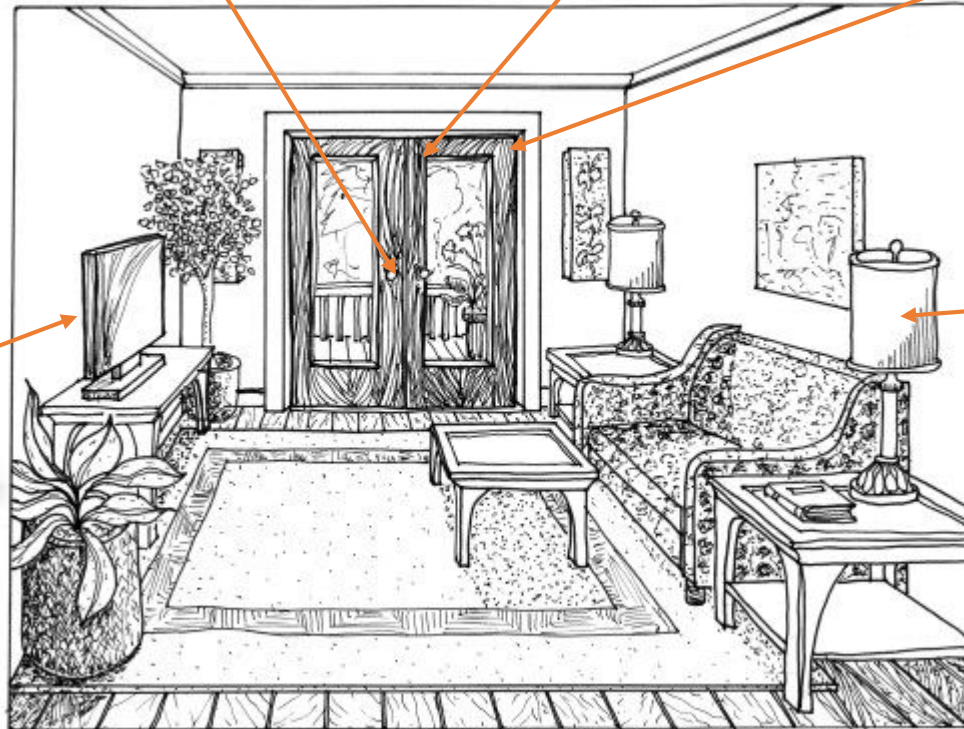
Amazon Echo (\$40-\$220) Always on voice command of devices and services. Set alarms, order products, news, radio and more.



Smart Locks (\$190-\$225) Keyless entry, notification of entry, remote control of locks using smart device. Notification can be sent when used.



Door bell (\$200-\$240) Smart doorbells shows who is at the door and allows remote communication via computer or smart device. Motion detects for security and provides alerts.



Automatic Door Opener (\$2000) By touching a large button attached to a wheelchair the opener gives the ability to independently physically open and close the front door.



Smart Light Bulb (\$15) Voice and smart device controlled, dimmable, color changing and can be programmed based on events.



Smart Switches and Plugs (\$40-\$90) Voice and smart device control of lights and appliances and can be programmed based on events.



Protect (\$100) Detects fire, CO2 and motion. Will alert others remotely with messages to send help.



Thermostat (\$250) Voice controlled and will learn, automatically adjusting temperature throughout the day. Has motion detection and works with **Protect** as part of security.



Voice Activated Emergency Signal (\$30-\$200) Activate sirens and call bells with your voice. Can activate based on events like intruder detection.

Modern consumer products applied as adaptive technology

Special Considerations for the Installation

- Knowledge of disabilities
- Knowledge of abilities
- Knowledge of technology
- Ability to work with a person's support team

SunKirb Ideas services

- An Initial consultation to:
 - Assess the environment (physical condition of door, Wi-Fi, acoustics and wiring), capabilities of client, current smart devices, needs and level of support from care providers
 - Development of naming conventions for voice commands, unique automated events, key codes, security and notifications
- A proposal describing the pricing, products and use
- The setup of cloud accounts and apps on smart devices and computers
- Manage installation of products, configuration and testing
- Programming of automations, robots and IFTT functions
- General training
- Follow-up support and if applicable, communication of free upgrades, new capabilities and expanded functions

Generic Technology Grant

SMART HOMES MADE SIMPLE is a project, funded by the Pennsylvania Developmental Disabilities Council (PaDDC), that is designed to raise awareness and develop a greater understanding of how generic smart home technology devices can help individuals with disabilities and seniors live more independently and safely in their own home by integrating these new devices into their everyday lives.



PENNSYLVANIA ASSISTIVE TECHNOLOGY FOUNDATION

Generic Technology Grant

SMART HOMES MADE SIMPLE

Hashtags: #MySmartHome
 #SmartHomesMadeSimple

Website: smarthomesmadesimple.org

Facebook: [SMART HOMES made simple](https://www.facebook.com/SMARTHOMESmadesimple)

Instagram: [@smarthomes_madesimple](https://www.instagram.com/smarthomes_madesimple)

Twitter: [@mysmarthometech](https://twitter.com/mysmarthometech)



Funding Resources for Smart Home Devices

- Office of Vocational Rehabilitation (employment-related)
- Home and Community-Based Waiver Programs (“waivers”)

Electronic systems that enable someone with limited mobility to control various appliances, lights, telephone, doors and security systems in their room, home or other surroundings • Training or technical assistance for the participant, paid caregiver and unpaid caregiver

- Disability-Specific Organizations (e.g., Achieva, ALS Association)
- Pennsylvania Assistive Technology Foundation (PATF)

PATF Helps All Pennsylvanians

PATF programs are available to Pennsylvanians:

- ➡ All ages
- ➡ All income levels
- ➡ All disabilities and health conditions



PATF makes every effort to ensure that materials are accessible, including for non-English speakers.

SunKirb has configured almost 20 apartments at Inglis

<https://www.youtube.com/watch?v=YkT6fAA0AFs>

