Home Automation

For fun and convenience

Connected Everything




nest
70


amazon


Yale
1 2 3
4 5 6
7 8 9
0







Privacy

Integration
Flexibility

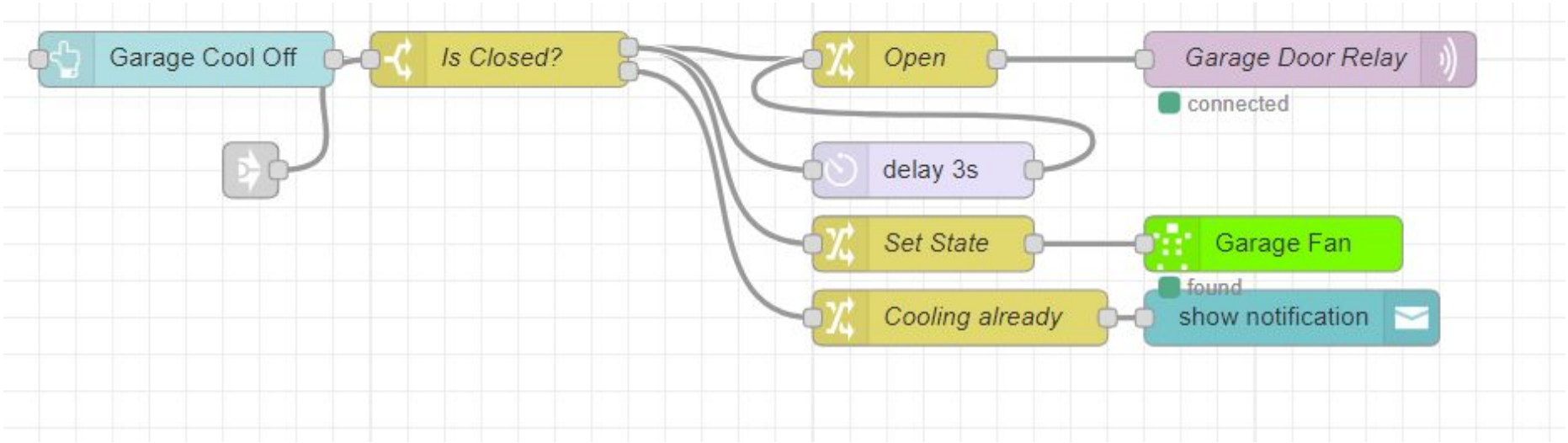
Cost

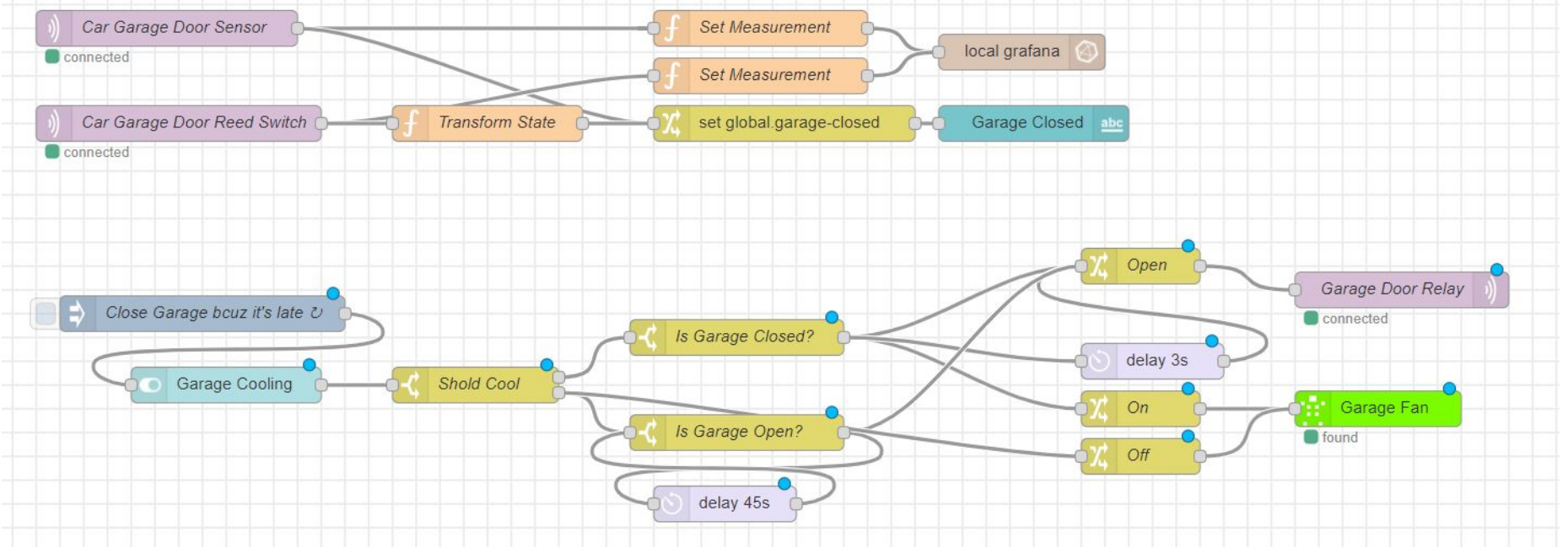

LEAVE
SWITCH
ON!
This is BAD

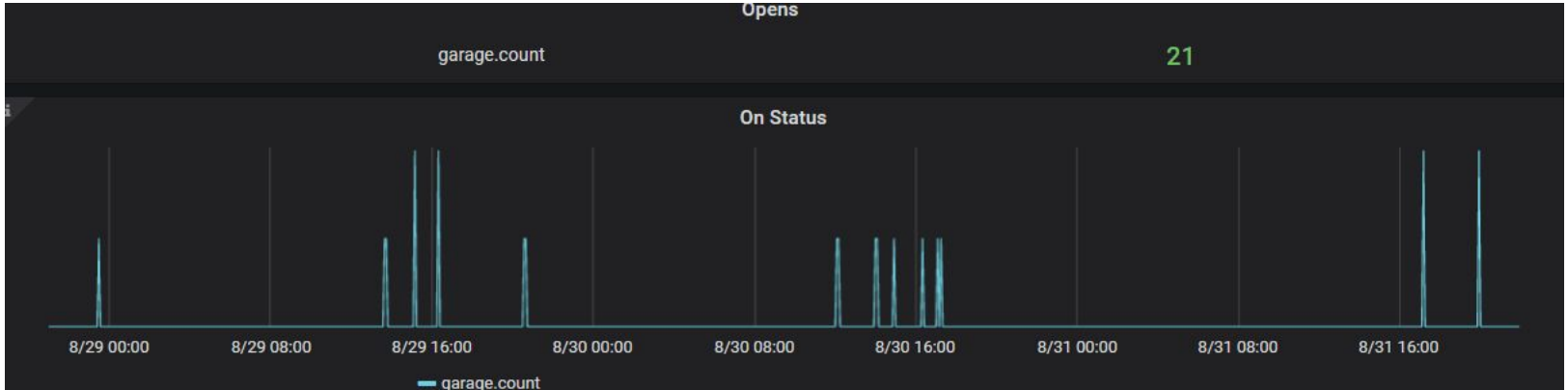

wemo
Wi-Fi Light Switch
wemo
Kitchen Lights
Madison's Nightlight
Front Porch Light
Bedroom A/C
CONTROL YOUR STUFF
FROM ANYWHERE.
Sync, set, schedule, sweet!
nest


No Internet
No Problem

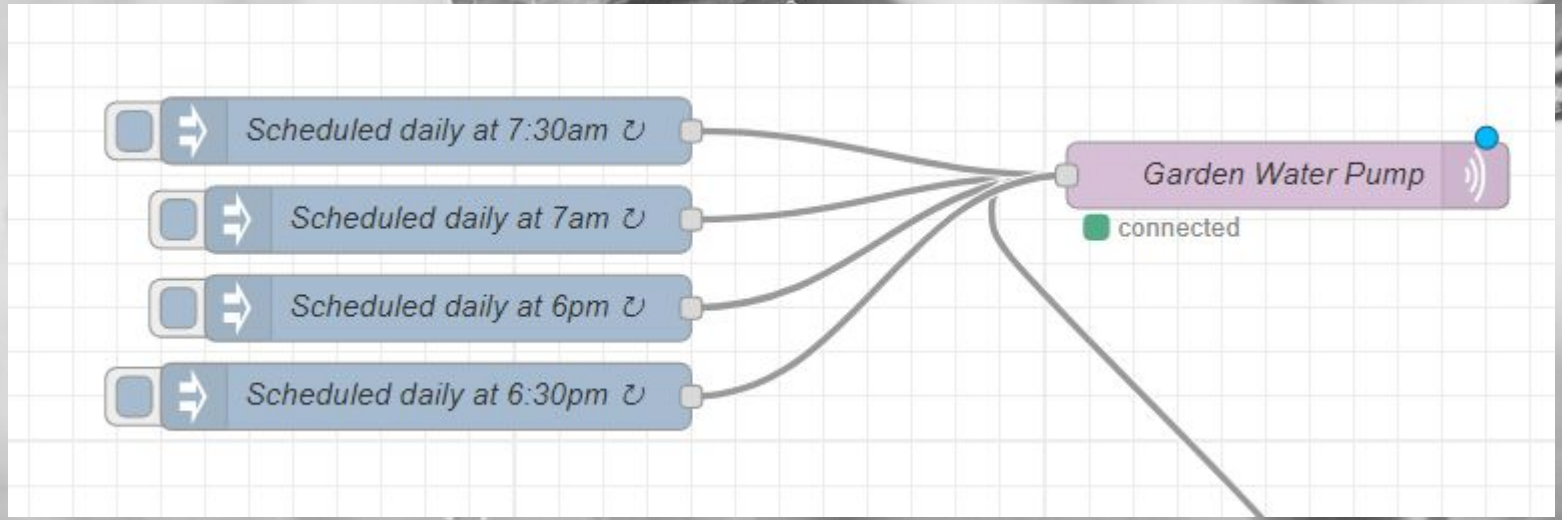

✓ Must Be Agile
The Optimizer
The Planner
Groups of friends travelling together
2. PROBLEMS / PAINS
Which problems do you solve for your customer?
There could be more than one, explore different sides.
eg. existing solar solutions for private houses are not considered a good investment (1).
X
TOO MANY POINTS FOR COMPARISON
TOO MANY TABS
Hard to coordinate


Garage Cool Off
Is Closed?
Open
Garage Door Relay
connected
delay 3s
Set State
Garage Fan
found
Cooling already
show notification


Car Garage Door Sensor
connected
Car Garage Door Reed Switch
connected
Set Measurement
Set Measurement
local grafana
Transform State
set global.garage-closed
Garage Closed
abc
Close Garage bcuz it's late
Garage Cooling
Shold Cool
Is Garage Closed?
Is Garage Open?
delay 45s
Open
delay 3s
On
Off
Garage Door Relay
connected
Garage Fan
found

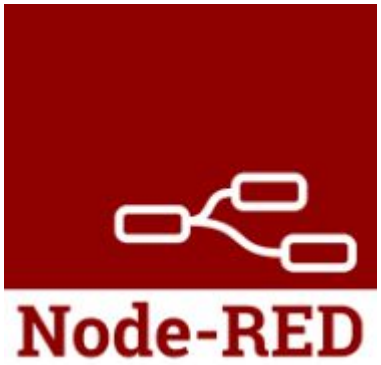

Opens
garage.count
21
On Status
8/29 00:00
8/29 08:00
8/29 16:00
8/30 00:00
8/30 08:00
8/30 16:00
8/31 00:00
8/31 08:00
8/31 16:00
garage.count

Check automations



The Rules

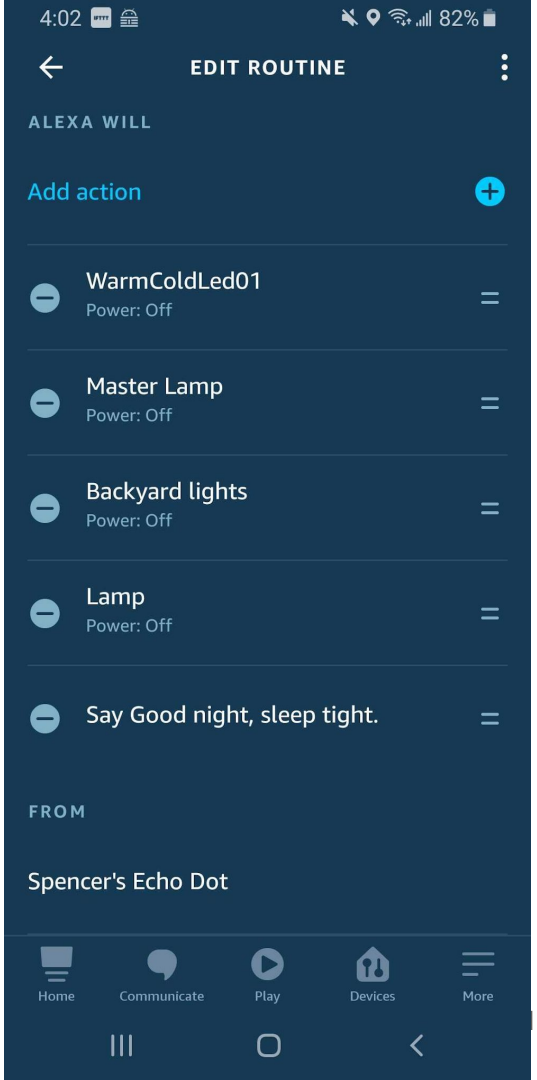


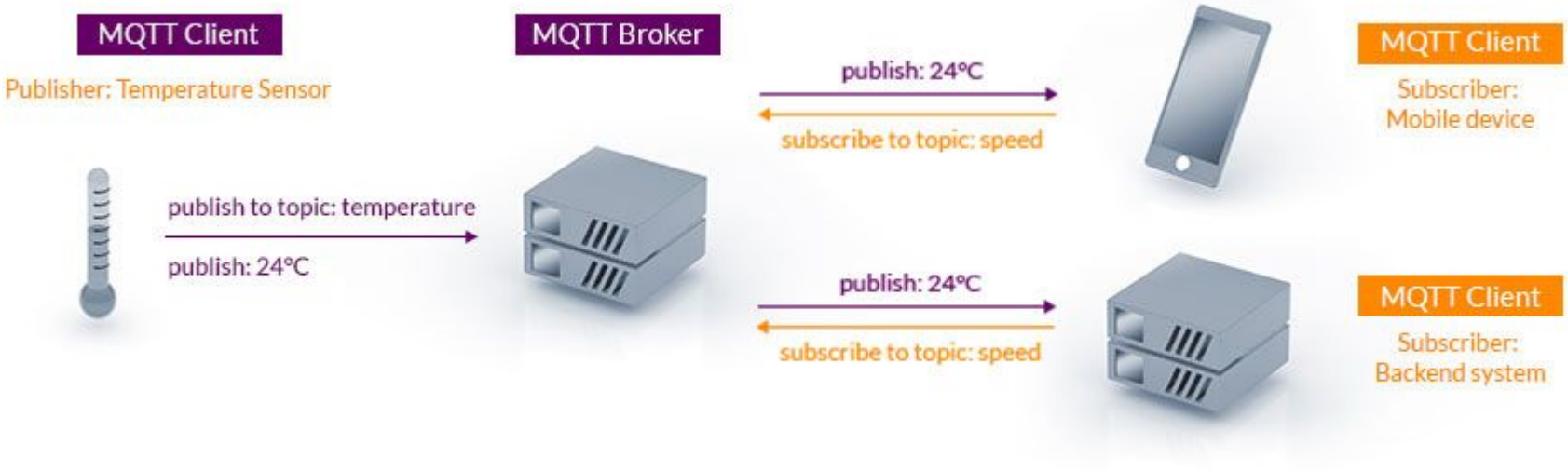




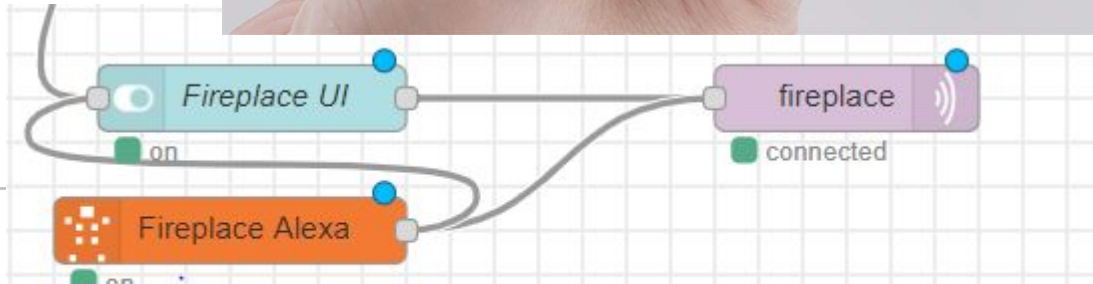


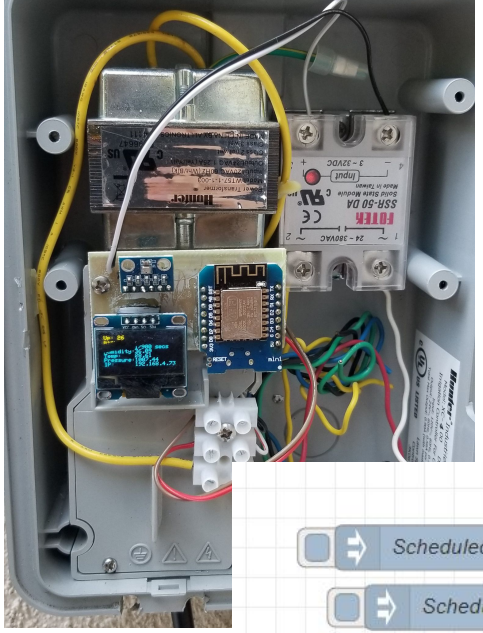
Blink your Phillips Hue lights when your android device battery drops below 15%

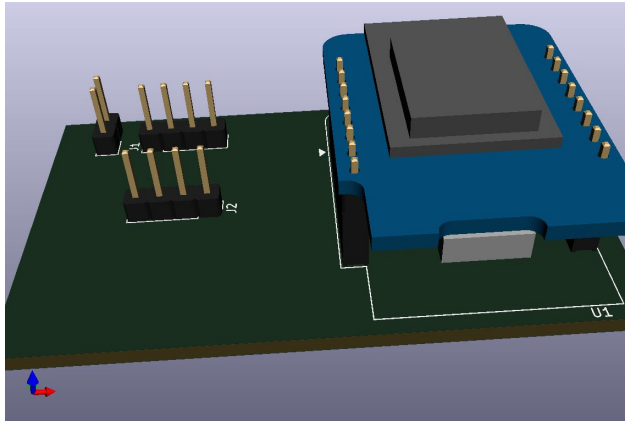



MQTT Client
Publisher: Temperature Sensor
MQTT Broker
publish to topic: temperature
publish: 24°C
publish: 24°C
subscribe to topic: speed
MQTT Client
Subscriber:
Mobile device
publish: 24°C
subscribe to topic: speed
MQTT Client
Subscriber:
Backend system


SONOFF MINI
Wi-Fi DIY Smart Switch
APP Control
Time Schedule
Voice Control
LAN Control
Power-on State
DIY
DIY Mode
MINI
Small Body


Fireplace UI
on
fireplace
connected
Fireplace Alexa





Generic Module

Sprinkler

BME280 Temperature	32.9 °C
BME280 Humidity	18.4 %
BME280 Dew point	5.7 °C
BME280 Pressure	1005.2 hPa

OFF

Toggle

Configuration

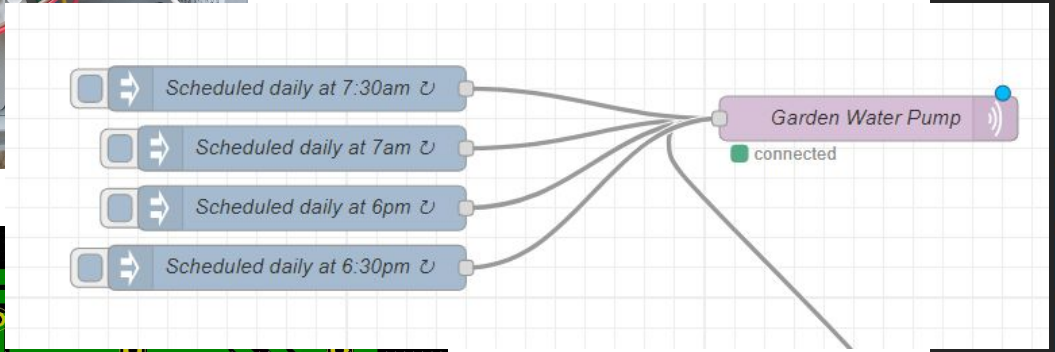
Information

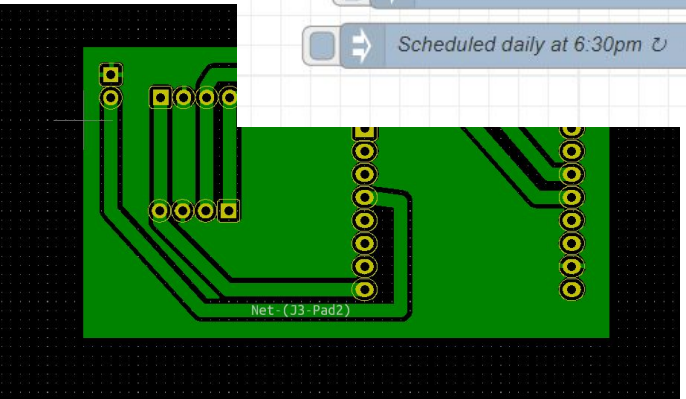
Firmware Upgrade

Console

Restart

Tasmota 8.3.1 by Theo Arends





The ~~Rules~~ Guidelines Recap

- ➔ Don’t introduce a new way while removing the old way
- ➔ No internet, no problem
- ➔ Must be agile
- ➔ Check automations
- ➔ If you're gonna break a guideline, then it must be exceptional

Memorable Home Automations

- Blink lights when heart rate is too low and/or low activity
- Fireplace fire light simulation with Alexa controls
- If it will rain today, do not water
- Open the garage door if my car is not present but phone just became present
- Light and water management for indoor garden
- Air quality sensor with notifications to run the fan
- Backyard landscaping lighting
- Living room led lighting with warm and cold
- Nest integrations until Google broke the API
- Washing / drying machine completion notifications based on power usage
- AC / Heating monitoring
- Various AWS usage of services (Alexa, Polly, S3, IoT, Cognito)
- 3D printing complete/status indicators

Questions?
Feedback!