

A close-up photograph of a person's hands holding a pair of binoculars. The hands are positioned as if looking through the binoculars, which are pointed towards the viewer. The background is filled with dense, green, fern-like foliage, creating a natural and somewhat mysterious atmosphere. The lighting is bright and even.

Competitor Idea Research

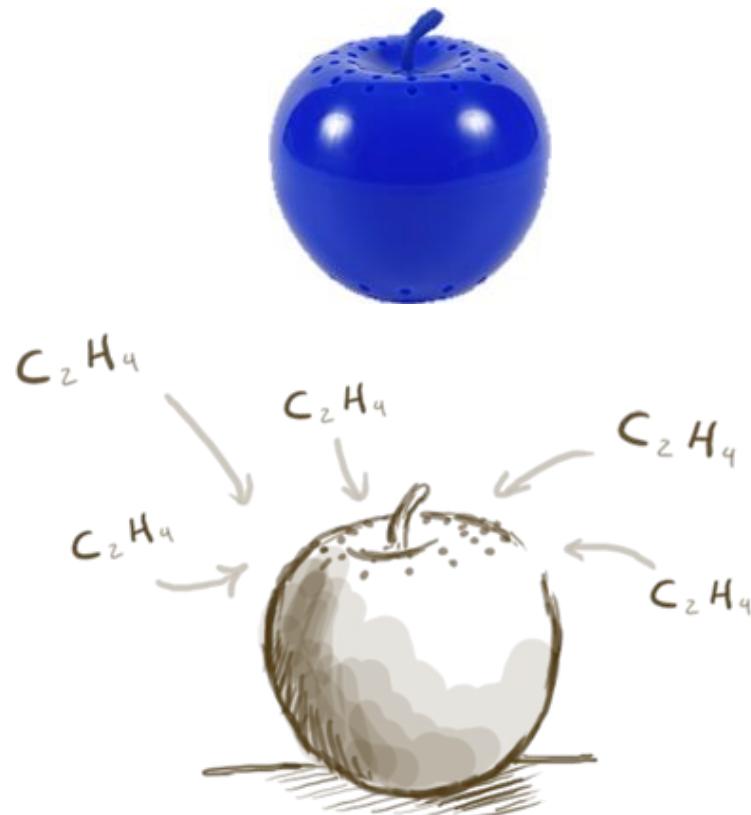
Blue Apple

Description:

Absorbs ethylene from produce to prolong shelf life. Can be used in the refrigerator or added to a fruit bowl.

Link:

<http://thebluapple.com/>



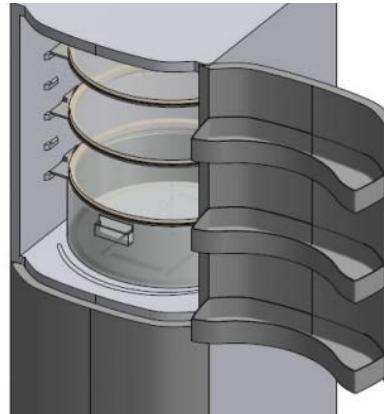
Innofridge

Description:

Lazy susan in a fridge

Link:

<https://met.et.byu.edu/content/students-throw-spin-refrigerator>



OXO Produce Keeper

Description:

Tupperware + Strainer + Carbon Filter
(to absorb ethylene)

Link:

<https://www.oxo.com/products/storage-organization/greensaver/greensaver-produce-keeper-5-qt>



Color Changing Tags

Description:

Designed by Chinese researchers. The tags change color based on time & temperature resulting from a chemical reaction between gold and silver

Link:

<http://clubhousenews.com/color-changing-smart-labels-track-food-freshness/>



Insignia Technologies - Color Changing Labels

Description:

Labels that change color after a package is opened. The label is one color when the package is filled with CO₂ and starts to change color once the CO₂ escapes

Link:

<http://insigniatechnologies.com/index.asp>



After opening timers
for a wide range of
food and beverage
products

**Centre dot changes colour
when pack is opened**

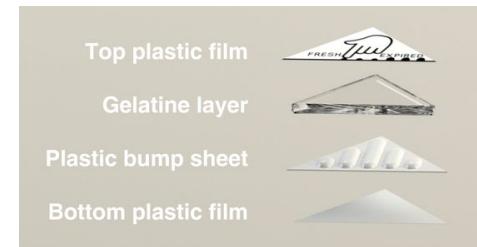
Bump Mark

Description:

Food packaging label that is initially smooth. As the product ages, the gelatin liquefies and the label becomes bumpy

Link:

<http://www.designbysol.co.uk/bumpmark>



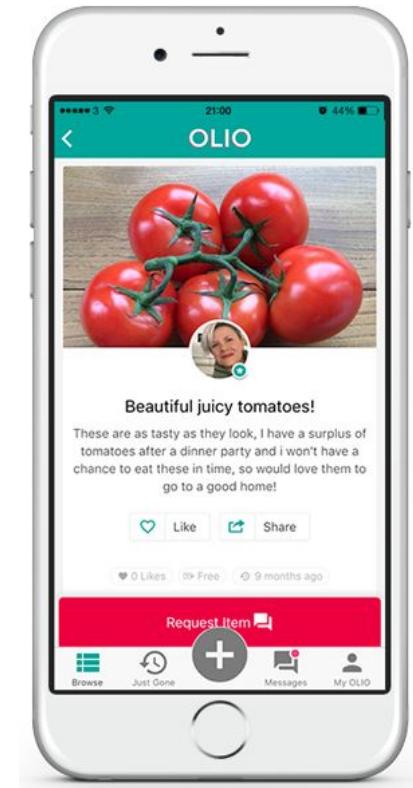
OLIO - Local Food Sharing

Description:

Connects neighbors and local shops so that surplus can be shared

Link:

<https://olioex.com/>



Sharper Image - Freshness Sniffer

Description:

Measures VOC gas levels emitted from food and sends a notification to a smart phone saying “Fresh”, “Cook Well”, or “Spoiled”



Link:

[Sharper Image](#)

Potential Sensor to Test:

<https://www.adafruit.com/products/3199>

Adafruit MiCS5524 CO, Alcohol and VOC Gas Sensor Breakout



Hiku

Description:

Allows users to create shopping lists by scanning barcodes or by voice. The shopping list can be accessed at the store. Users can also use the list to purchase food online.

Link:

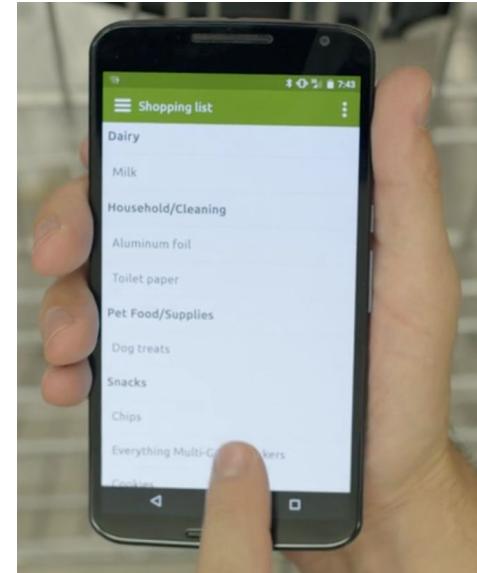
<http://hiku.us/>



Scan it.



Say it.



RecycleBank

Description:

Earn points by recycling or completing learning activities online. Turn points into rewards or discounts.

Link:

<https://www.recyclebank.com/>



PICK UP POINTS FOR
**RECYCLING AND
LEARNING ONLINE**

Like a frequent flyer program, the more you do it, the more you'll earn.

JOIN US



**TURN YOUR
POINTS INTO SAVINGS**

Members can use their Recyclebank points to get great deals at local businesses and exclusive discounts on sustainable goods.

JOIN US

Hazel Technologies

Description:

FruitBrite is a carton insert that extends the life of ethylene sensitive produce

BerryBrite is an antifungal, essential oil derivative for flats that extends the shelf of berries in cold storage

Hazel tech. Sells these products to farmers and shippers to extend life during transit

Link:

<https://www.hazeltechnologies.com/>



Bosch & Samsung smart fridges

Description:

Samsung refrigerator takes a picture everytime you close the door. You can access these photos on your phone while at the store.

Bosch is attempting a camera in the fridge, but might not yet be on the market.

Link:

<http://www.samsung.com/us/explore/family-hub-refrigerator/>

<http://www.bosch-home.co.uk/home-connect.html#fridges>



Jamie Oliver's Alexa App

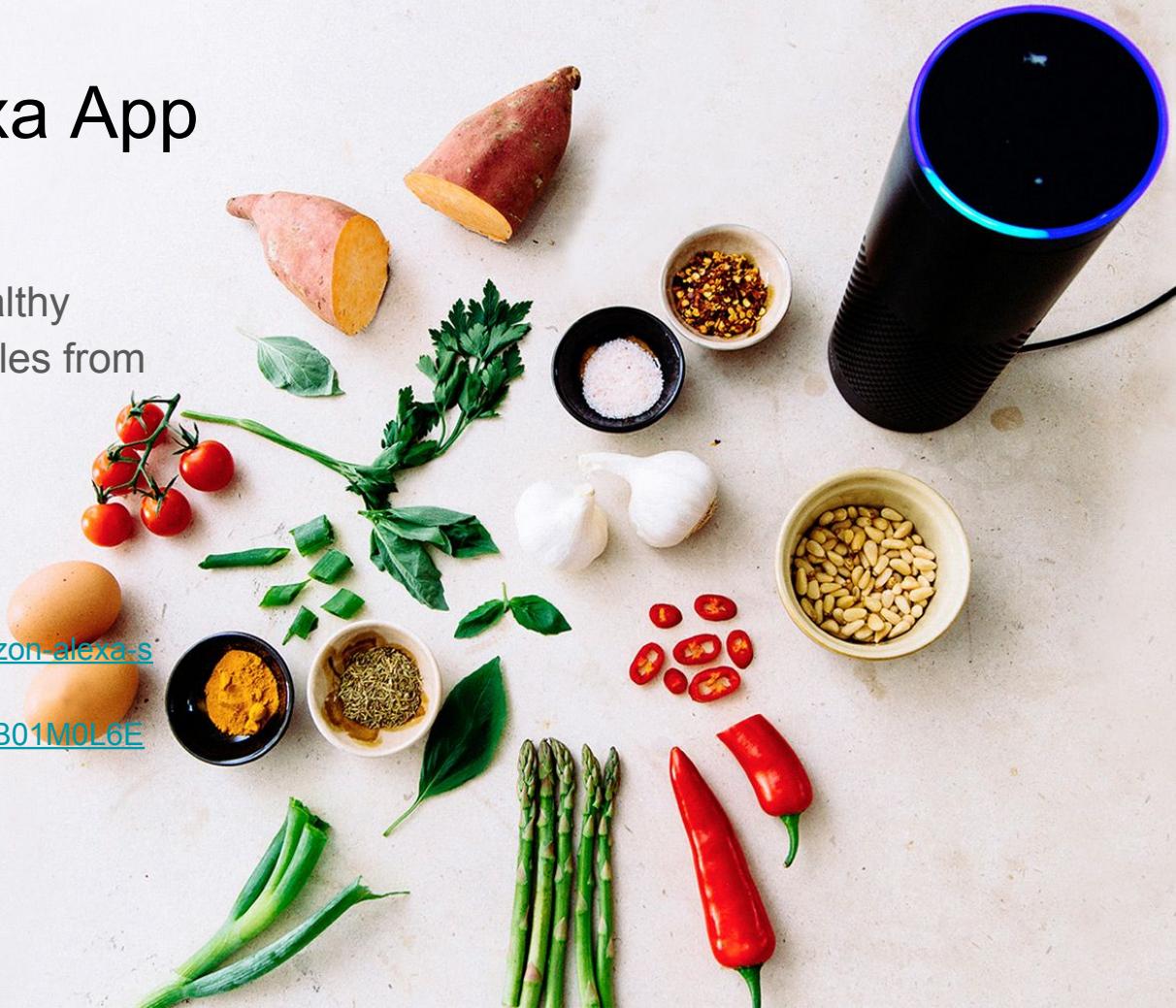
Description:

This Alexa skill helps provide healthy recipes to folks with busy schedules from Jamie Oliver's catalog

Link:

<http://www.akqa.com/work/jamie-oliver/amazon-alexa-skill/>

<https://www.amazon.co.uk/Jamie-Oliver/dp/B01M0L6EVT>



Origami Table

Description:

Origami Table allows table to expand and contract according to the user's needs

Link:

https://www.youtube.com/watch?v=tOp5j_57LAE

<https://www.youtube.com/watch?v=5OwtKY-EYJY>



Super Cook

Description:

Website that allows users to plug in ingredients they have in their fridge and shows recipes they can cook with those ingredients. The list of recipes are from a variety of external websites.

Link:

<http://www.supercook.com>

<https://myfridgefood.com/> <- A less appealing version

The screenshot shows the SuperCook interface. On the left, a sidebar lists ingredients: Fish, Baking & Grains, Oils, Seafood, Added Sweeteners, Seasonings, and Nuts. The main area displays three recipe cards: "Reheating Pasta" (from allrecipes.com), "Pasta Ring" (from www.myrecipes.com), and "Perfect Pasta With No Watching..." (from www.food.com). Each card includes a small image of the dish, a "You've got all the ingredients!" message, and a "It uses your: olive oil, pasta" note. At the bottom, there's a banner for "MEMBERS UP \$90 SAVED TO" and a list of suggested ingredients.

The screenshot shows a recipe page for "Pasta Ring" from myrecipes.com. The page features a large image of the dish, the title "Pasta Ring", and a "RECIPE FROM: SUNSET". To the right, there's another recipe card for "Mae N' Cheese (Ww)" with a "READY IN: 3 hr" note. Further right, there's a third recipe card for "Roasted Pepper Chipotle Cheesecake". The bottom right corner shows a large image of a pasta dish garnished with red pepper slices and herbs.

Spin Fridge

<https://met.et.byu.edu/content/students-throw-spin-refrigerator>



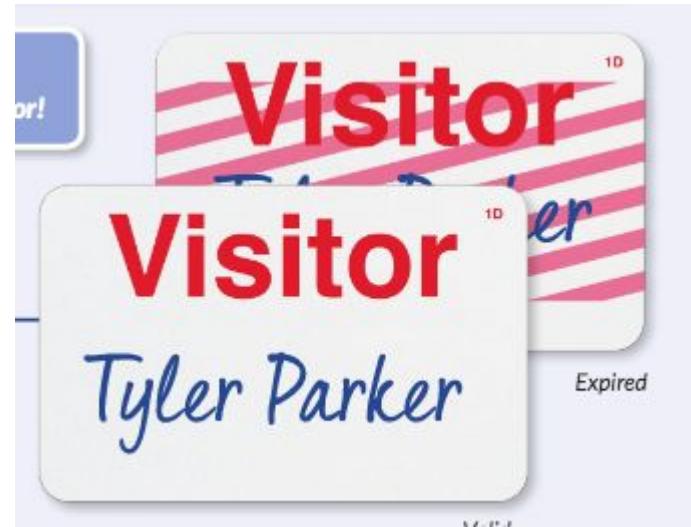
Expiring Badges

Description:

TempBadge ID makes ID badges with time sensitive ink. After a certain amount of time, the ink bleeds through to the top showing that the badge has expired. The time ranges anywhere from 1 hour to 1 month.

Link:

<http://tempbadge.com/>



Alexa in the Kitchen

1. Maintain a grocery list

Out of the box, Alexa can help you maintain lists for shopping and todos. All you have to do is tell Alexa what you want to add and specify which list you want to add it to.

2. Convert units

When cooking, you may find yourself needing to convert units of measurement, such as from milliliters to cups. Alexa is capable of doing this out of the box. Just say, "Alexa, convert 2 cups to milliliters."

3. Start a timer

Alexa also works as a timer. Just say, "Alexa, start a timer for 5 minutes." After 5 minutes passes, the speaker will chime until you tell it to stop.

4. Make coffee

You can also use an Alexa command to start up a coffee maker. All you need is a Mr. Coffee 10-Cup Smart Optimal Brew -- or a simple drip coffee maker, plus a smart switch.

5. Control appliances

If you own one of the handful of full-size smart appliances integrated with IFTTT, you can control your oven, dishwasher, refrigerator or slow cooker with Alexa.

6. Recipe ideas

If you ask Alexa for recipe ideas, she isn't exactly helpful. However, if you search for "recipe" in the Skills section of the Alexa app or alexa.amazon.com, there is no shortage of options.

One of my personal favorite Skills (mini apps for Alexa) is Recipe Finder by Ingredients. To use it, say something like, "Alexa, ask Recipe Finder what I can make with chicken and broccoli." You can list up to five ingredients and Alexa will provide any relevant results with a link in the Alexa app.

7. Ask for calorie counts

If you're not sure how many calories a food has, just ask Alexa. She may not always have an answer, but it's a great place to start. For example, try saying, "Alexa, how many calories are there in Greek yoghurt?"

8. Pair wines with food

If you're unsure which wine best pairs with a certain dish, you can ask Alexa. First, you'll need to enable the Wine Buddy Skill by saying, "Alexa, enable Wine Buddy."

9. Cocktail recipe ideas

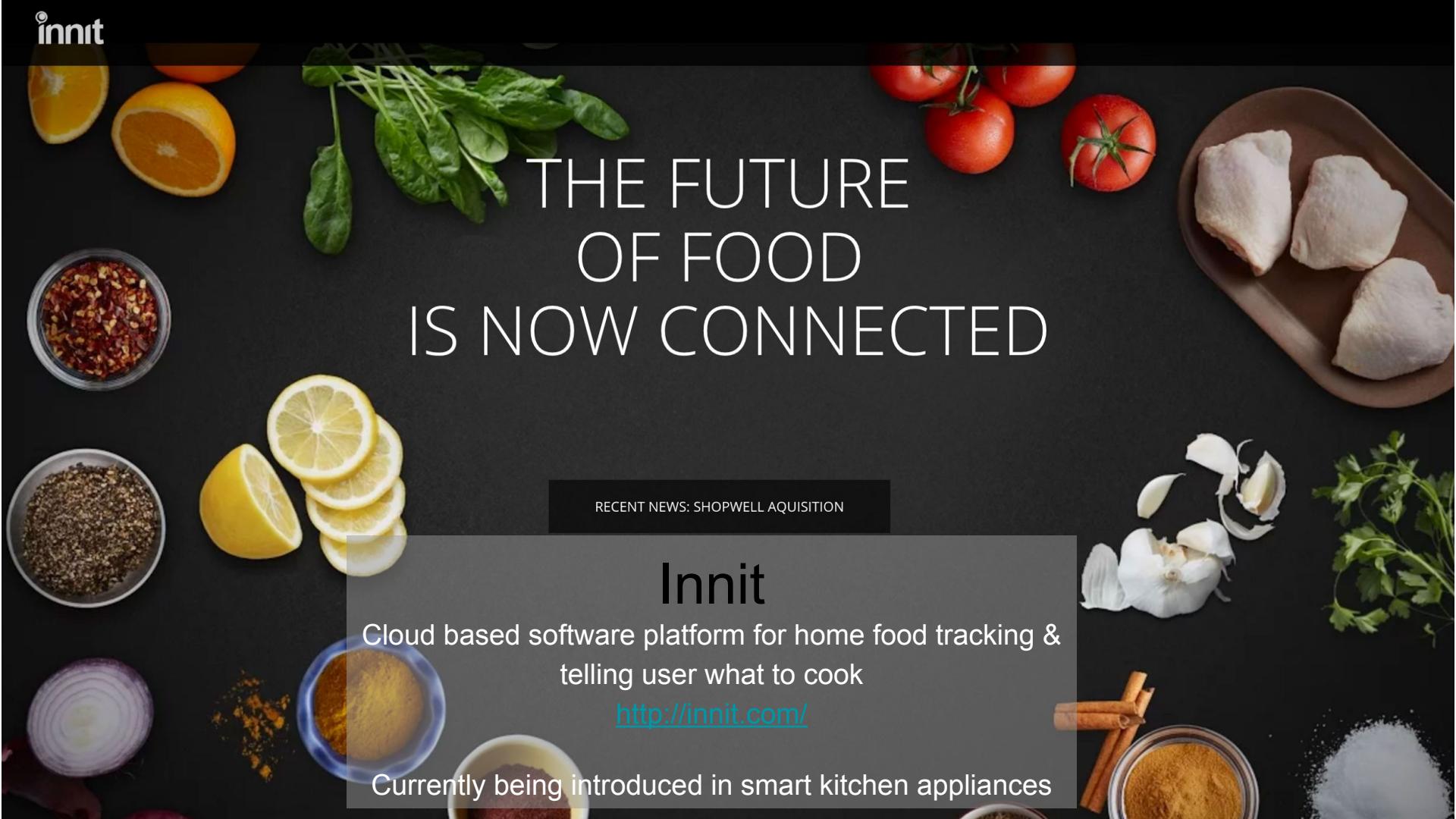
When having guests over for drinks, if you're not sure where to begin, just ask Alexa to enable Easy Cocktail.

Rubbermaid Containers



More Containers





THE FUTURE OF FOOD IS NOW CONNECTED

RECENT NEWS: SHOPWELL AQUISITION

Innit

Cloud based software platform for home food tracking & telling user what to cook

<http://innit.com/>

Currently being introduced in smart kitchen appliances

Interesting Sensors

Name	Description	Link	Cost	Notes
Adafruit MiCS5524 CO, Alcohol and VOC Gas Sensor Breakout	Gas detection sensor	https://www.adafruit.com/products/3199	\$14.95	Has breakout (all in one)
Adafruit PN532 NFC/RFID Controller Shield for Arduino + Extras	RFID	https://www.adafruit.com/products/789	\$39.99	Has been troublesome (4 inch range)
SparkFun Simultaneous RFID Reader - M6E Nano	UHF (Ultra High Frequency) = 1-2 ft	https://www.sparkfun.com/products/14066	\$199	High price
UHF RFID Tag (Set of 5)	UHF tags	https://www.sparkfun.com/products/14147	\$1.50	Check with daragh if compatible