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TAPR/HAT Banquet Operator ☺

(RTL-SDR) \$10-30 USD (Carl ~4 years)

collect stories about RTL-SDR (1st radio he bought)

Improved the design and worked w/ The factory, Signal ID Wiki (new) (Rn only SDR)

community based project (DVB-T) TV OTA
very mass produced ~5\$ \$2-3 to produce.

DVB-T to general purpose radio
Linux TV drivers but SDR discovered. (Stumbled across)
(Standard Scanner Stuff)

ADS-B UAT universal Access Tx/Rx Wx data
(dump1090) (dump978)

Stratix? - small plane (Stratus)

AIS ~~automate~~ ID System ~ (ADS-B for)
~~ships positions~~ (boats)

LEO Satellites NOAA wx sats

Meteor M-N2 Wx Sat

Rx Satellites that are "dead" or decommissioned

SATNOGs (cubesat, amateur sats)
telemetry etc, low data rates, so crowd
source the data Rx.

Similar project Thubnet/Thubsat

Radio Astronomy - meteor Scatter
Alert when condit~~ct~~ are good. Like bistatic
radar. liveradios.com

H line : galactic Plane (~21cm)

5/19/17, 5:00:53 PM

5/19/17, 10:00 AM, 56m 47s

TAPR/KAT Banquet Specie (☺)

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Measure Shape of galaxy.

Detect Pulsar - Spinning neutron star.

QRM, DF passive radar

2 synch RTL-SDR (clocks synch)

Signal DFing (Red Hawk system, e.g.)

Drives by Tim Havens (QRM/noise detect)

GPS → } Sensor fusion
RTL → }

L-band Sats - Outernet 1-way download.
(geo synchronous file casting)

Integrated unit on horizon.

Wifi hotspot created, you just connect.

Inmarsat Safety net (L band)
(Similar to Outernet)

Iridium ~
(Decoded by Zehl & Schneider)

Gathering Entropy via Atmospheric Noise
(RTL entropy)

Audio → 24 MHz RF? "HP elitebook"

Interesting!

GSM decoding (slightly broken)
Gr-gsm

Slovenia - TETRA security flaw investigation
emergency services (in Europe)

Reverse Engineering - IoT disasters/cakes

Bus Telemetry

GPS on a high powered rocket (COCOM limits.
59k ft)

Disney's EM Sense watch that knows
what you are ~~tapping~~ touching RTL-SDR to build
a database, RTL-SDK to record response.

Jupiter? Wx Balloons (Test equipment)

TAPR booth ☺ etc.