Vogelhaus

Pläne

- http://3axis.co/flexible-plywood-birdhouse-dxf-file/eo4q5687/ (Looks really good, fits really good together, needs a bit longer on the laser cutter, seems to be pretty cheap)
- https://www.instructables.com/id/Make-a-Birdhouse-Using-CNC/
- https://aribabox.com/products/bird-box (cost 6$)
- https://www.epiloglaser.com/resources/sample-club/birdhouse-laser-cutting.htm
- **https://www.thingiverse.com/thing:916051 (simple, classic, needs to be test cut before)**

https://oneguyoneblog.com/2019/09/09/esp32-cam-esp32-camera-sd-card-slot/

Teile Option 1 (ESP32 CAM)

- https://www.berrybase.de/raspberry-pi-co/esp8266-esp32/esp32-cam-development-board-inkl.-ov2640-kameramodul?c=306
  - https://www.fambach.net/esp32-cam-modul/
  - https://brettbeeson.com.au/mini-battery-and-solar-powered-timelapse-camera/
- https://www.robotshop.com/de/de/37v-1000mah-5c-lipo-akku.html
- https://www.robotshop.com/de/de/seeedstudio-usb-ladegerat-und-power-booster-lipo-rider-13.html
- https://www.az-delivery.de/products/hw-598-usb-auf-seriell-adapter-mit-cp2102-chip-und-kabel?variant=19558219415648
- https://www.reichelt.de/microsdhc-speicherkarte-4gb-intenso-intenso-msdhc4g-p83730.html?&trstct=vrt_pdn&nbc=1

Teile Option 2 (TTGO CAM / CAM +)

- TTGO T-Camera
- TTGO Journal
- Another one
  - https://randomnerdtutorials.com/ttgo-t-journal-esp32-camera-getting-started/
  - https://oneguyoneblog.com/2019/09/03/lilygo-ttgo-t-journal-esp32-ov2640-camera/
- https://www.robotshop.com/de/de/37v-1000mah-5c-lipo-akku.html
- https://de.aliexpress.com/item/32971057846.html?spm=a2g0o.productlist.0.0.706310c9QbdMGw&algo_pvid=6931e084-028b-482d-a75d-527c05d59cc4&algo_expid=6931e084-028b-482d-a75d-527c05d59cc4-5&btsid=0be3746c15968138845353688e64e9&ws_ab_test=searchweb0_0,searchweb201602_,searchweb201603_

Heise Vogelhaus mit Raspi IR Cam

- https://www.heise.de/select/make/2018/2/1524369007666569

ESP32 Cam TTGO by LilyGo

- https://de.aliexpress.com/store/2090076?spm=a2g1y.promotion-20181111.pcShopHead_11037743.0
- https://www.youtube.com/watch?v=_MsoPHZ3uD0
- Plauderei am Donnerstag 52: TTGO ESP32 Camera und andere Dinge: https://www.youtube.com/watch?v=sVAXwtU2yFk

Funktionen

- Zeitraffer
- Einzelne Videos (Stream ins Internet?) (zumindest ins Netzwerk) → Mini Webserver Locally?
- Einzelne Fotos bei Bewegung
- Nachtsicht
- Fotos nach Sound??
- Solarbetrieben
- RTC
- SD-Karte (Mini-Cloud) vs Cloud

- https://www.berrybase.de/raspberry-pi-zero-w
- https://raspi.tv/2017/how-much-power-does-pi-zero-w-use
- https://blog.hau.me/2018/12/27/setting-up-node-red-on-a-raspberry-pi-zero-w/
- https://marksbench.com/electronics/removing-ir-filter-from-esp32-cam/
- https://github.com/lewisxhe/esp32-camera-screen
- https://randomnerdtutorials.com/esp32-cam-troubleshooting-guide/

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