

Link <https://youtu.be/E1coLYnv5q8>

– Photographs final design prototype –

Group 37 - Engineering Design

Image 1 3D printed tag and keys on keychain

Image 2 Inside tag electronics

- Button
- Vibration module
- Buzzer module
- ESP 8266
- Battery

Image 3 3D printed attachable module

Image 4 Inside attachable module electronics

- Button
- Current conductive magnets

Image 5 Hub and 3 attachable modules

Image 6 Hub *side view*

- Raster - air flow
- ESP 8266 USB connector
- Arduino Uno Barrel plug (power input)

Image 7 Hub *above view*

Image 8 Hub *side view*

Image 9 Backside lid hub electronics

- Speaker
- Find button
- Record button
- Microphone

Image 10 Inside base hub electronics

- Arduino Nano
- SD - card reader
- Amplifier
- 2x ESP 8266

* Connections between hardware components are made with jumper wires





Image 1



Image 2



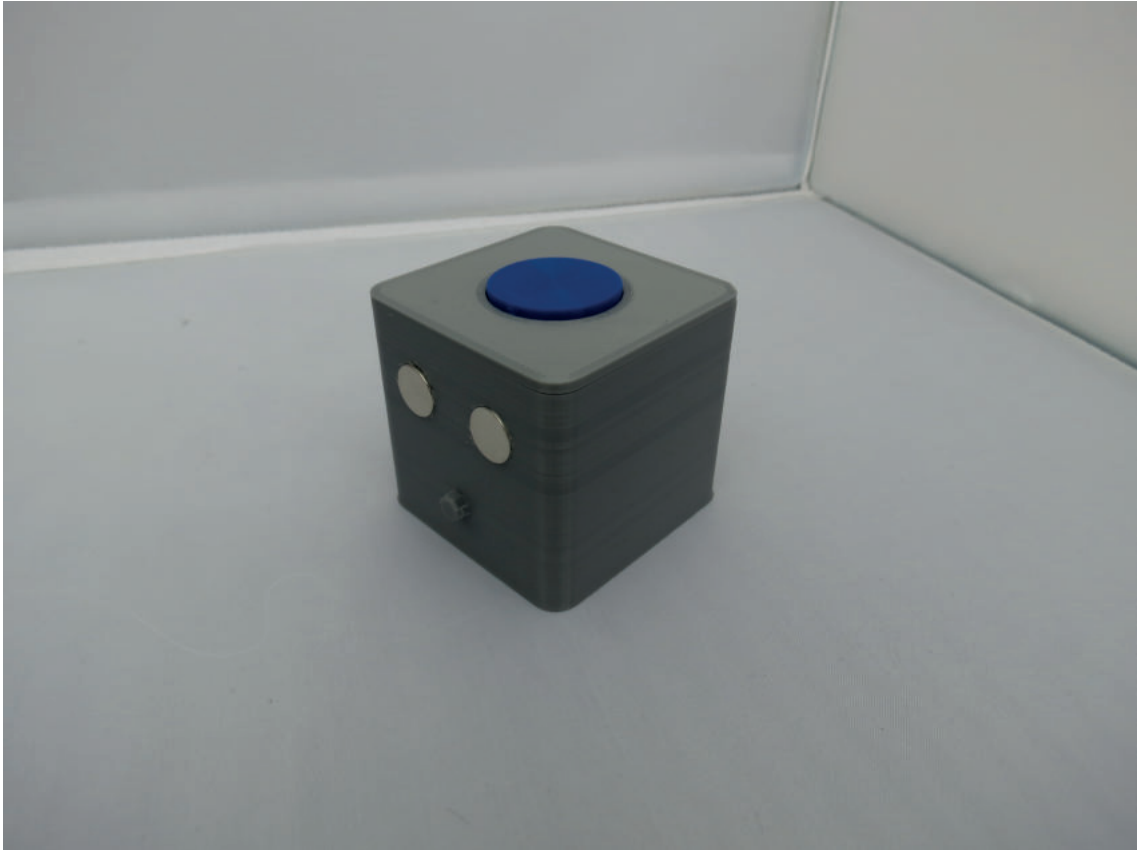


Image 3

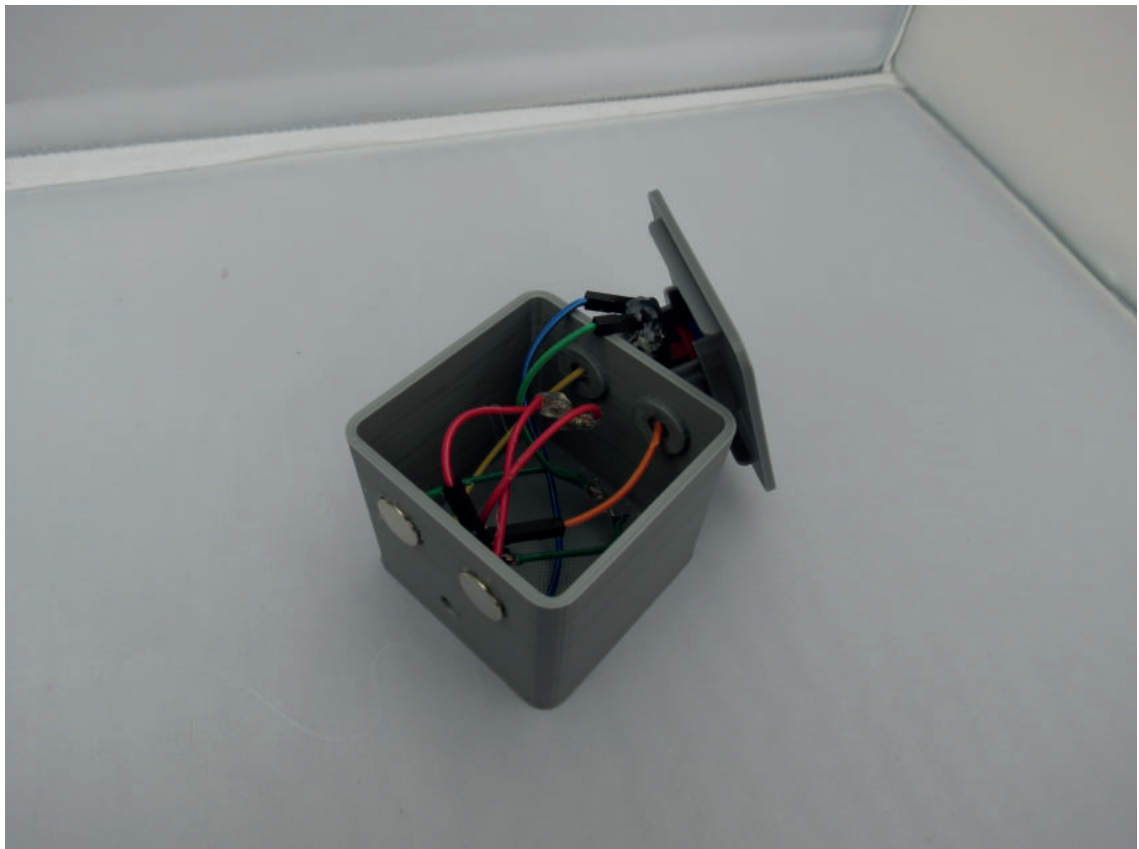


Image 4





Image 5



Image 6





Image 7



Image 8



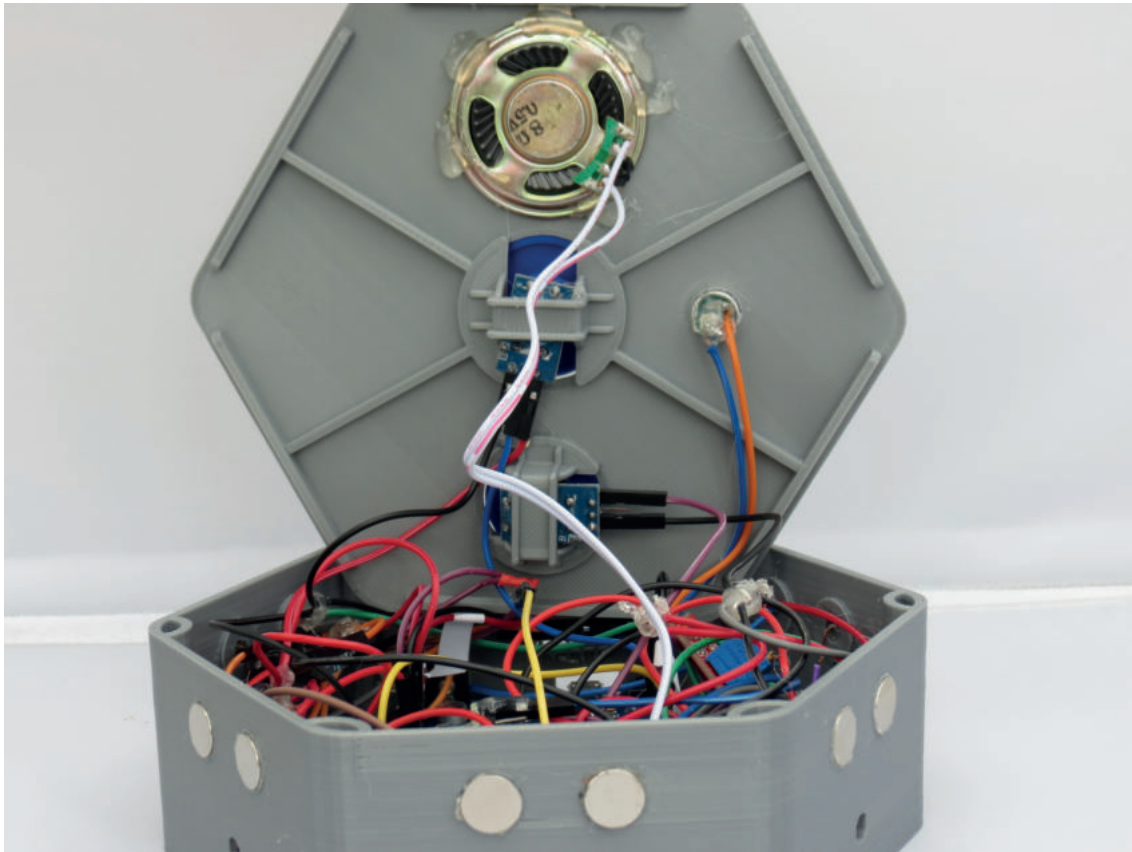


Image 9

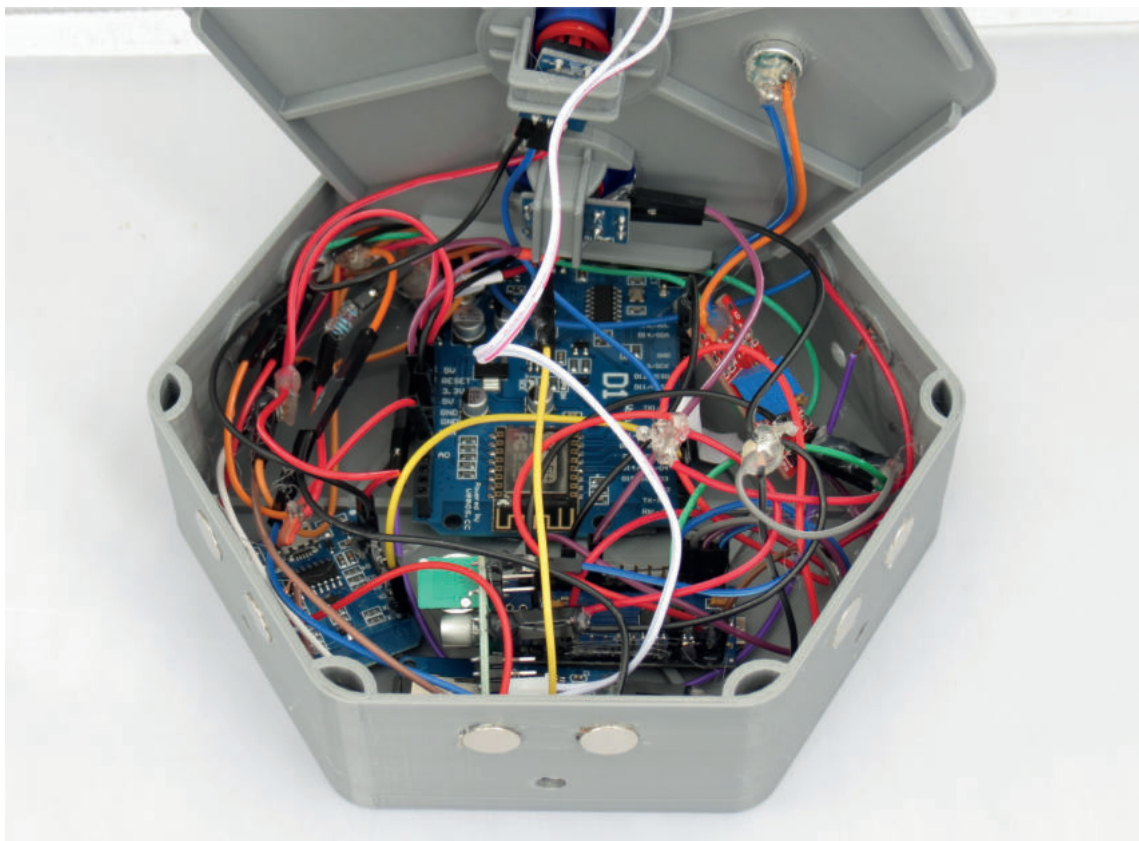


Image 10

