

## Sergey Moiseenko BcEng Software and Electronic Engineering Year 4 Project

## Electronic Key Tracker

Smartphone Esp32 Send signals trough Flash a LED and Sound Bluetooth BLE to control LED buzzer upon request and buzzer. from smartphone Send Data from GPS to Sigfox **GPS** Transceiver Webpage **AWS** SigFox

Technology used

- Sigfox
- ESP 32
- Gps
- Bluetooth
- AWS

Project idea: A device that reads GPS co-odrdinates and sends it over Sigfox network to their backend.

From sigfox backend, gps cordinates are redirected to aws cloud where they are stored in the database.

App takes coordinates from the database and places marker on the map.

User can connect to the ESP via Bluetooth to control LED and buzzer.



Outcome:

esp sends gps Coords trough transceiver. Message is redirected to aws s3 bucket (Simple Storage Service) and redirects it to the databese.





