Time of Flight Sensor — Arduino MKR WAN 1310 — State starts at FALSE

Magneto-meter Sensor — Arduino MKR WAN 1310

Is any of the sensors detecting a difference within the set range?

Yes? → Change state to 'TRUE' and send it → ChirpStack Recieves state change → Send state to server → Update parking spot status on app

No? → Continue to monitor for a change → Any Changes?

Any Changes? Yes? | No?

Yes? → (back to Change state to 'TRUE' and send it)

No? → Sleep until a change happens

Sleep until a change happens

Scenario: Car takes open parking spot

```
┌──────────────┐      ┌──────────────┐      ┌──────────────┐
│ Time of      │      │  Arduino     │      │ State starts │
│ Flight       │──────│  MKR         │──────│ at TRUE      │
│ Sensor       │      │  WAN         │      │              │
└──────────────┘      │  1310        │      └──────────────┘
┌──────────────┐      │              │
│ Magneto-     │──────│              │
│ meter        │      └──────────────┘
│ Sensor       │
└──────────────┘
```

Is any of the sensors detecting a difference within the set range?

Yes?	No?

Change state to 'FALSE' and send it

Continue to monitor for a change

Any Changes?

Yes?	No?

ChirpStack Recieves state change

Send state to server

Sleep until a change happens

Update parking spot status on app
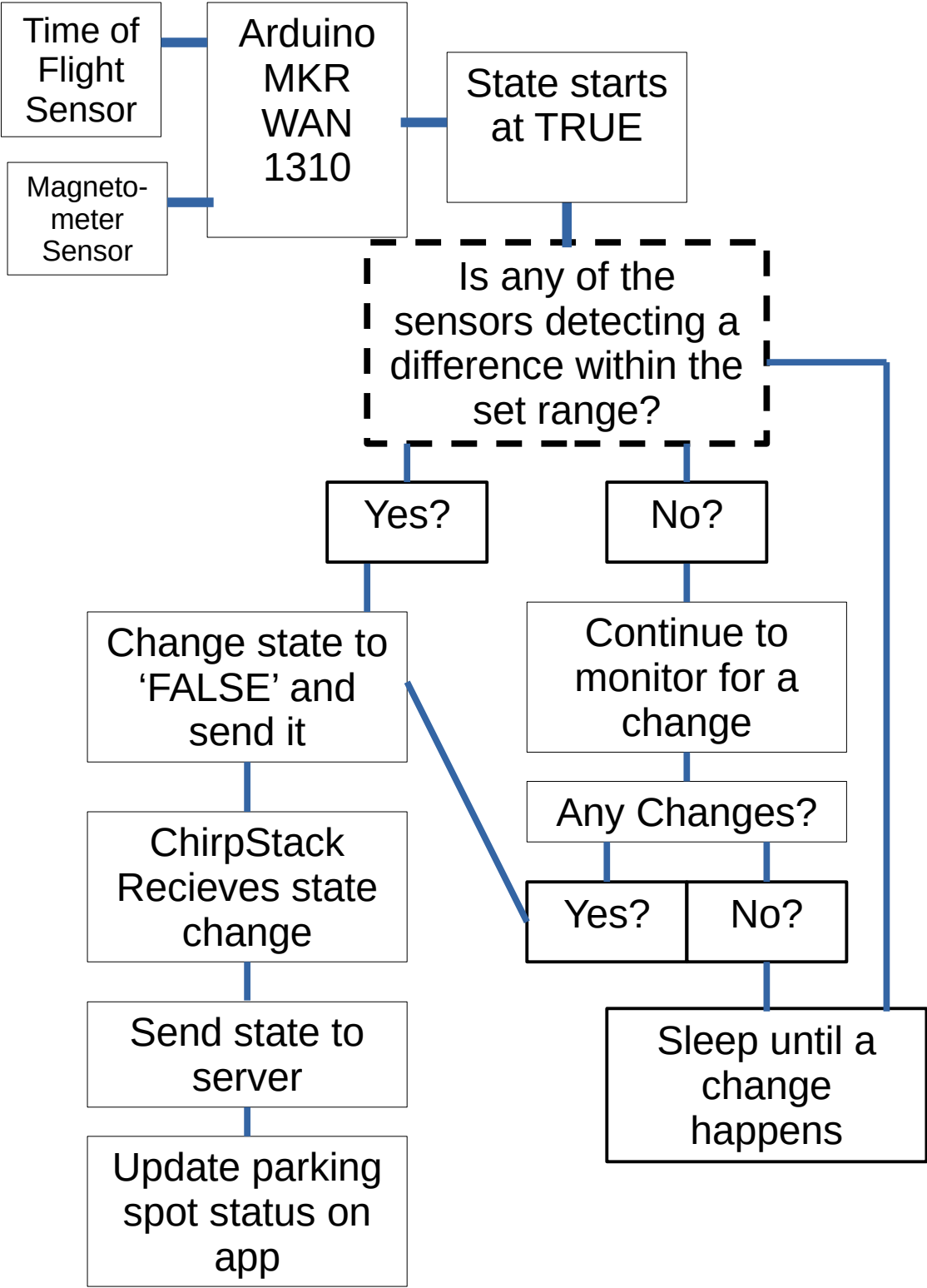
Scenario: Car leaves parking spot