

|                                    | 1           | 2           | 3           | 4          | 5          | 6           | 7           | 8           | 9          | 10          | 11          | 12          | 13         | 14          | 15          | 16          |
|------------------------------------|-------------|-------------|-------------|------------|------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|
| Tareas                             | 12-oct-2020 | 19-oct-2020 | 26-oct-2020 | 2-nov-2020 | 9-nov-2020 | 16-nov-2020 | 23-nov-2020 | 30-nov-2020 | 7-dic-2020 | 14-dic-2020 | 21-dic-2020 | 28-dic-2020 | 4-ene-2021 | 11-ene-2021 | 18-ene-2021 | 25-ene-2021 |
| Análisis y compra de dispositivos  |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Kit de arduino                   |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • TTGO LoRa (pruebas)              |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Bomba de agua                    |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Tarjeta SD Raspberry Pi          |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Gateway LoRa                     |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Alimentación                     |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • ¿Otro sensor de nivel de agua?   |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • ¿Otro servo motor?               |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • ¿Otro pack TTGO?                 |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Otros                            |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| Estudio de LoRa                    |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Estudio del protocolo            |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Estudio de dispositivos TX/RX    |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Conexión con Arduino             |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Pruebas y debugging              |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| Estudio de Arduino                 |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Estudio lenguaje                 |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Estudio sensores                 |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Programación                     |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Pruebas y debugging              |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| Creación base de datos Rasp.       |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Creación BBDD                    |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Conexión Raspberry Pi con TTGO   |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Pruebas y debugging              |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| Visualización datos                |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Ver datos en local               |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Programación página web          |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Pruebas y debugging              |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| Integración componentes            |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • TTGO, Arduino, sensores, motores |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Pruebas. Documentar resultados   |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Estudio consumo energía          |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Determinar sist. alimentación    |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Esbozo prototipo definitivo      |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| Integración con fuente alim.       |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Pruebas con fuente alim.         |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Prototipo definitivo             |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Debugging fallos encontrados     |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| Pruebas en entorno controlado      |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Pruebas                          |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Debugging fallos encontrados     |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| Pruebas en entorno real            |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Pruebas                          |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Debugging fallos encontrados     |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| Mejoras en prototipo final         |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Mayor eficiencia energética      |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Mejor aspecto externo            |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Mejor comunicación TX/RX         |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| • Otros                            |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |
| Redacción memoria final            |             |             |             |            |            |             |             |             |            |             |             |             |            |             |             |             |

[illegible]