**IoT FINAL PROJECT a.y. 2022/2023**

1. Name: Capacci Tommaso (Person Code: 10654230, team leader)
2. Name: Ginestroni Gabriele (Person Code: 10687747)

Project type: 1

ThingSpeak public channel URL: <https://thingspeak.com/channels/2233511>

In this project we were requested to implement a lightweight publish-subscribe application protocol using TinyOS and test it over a star topology network in which we had 8 nodes (acting as MQTT motes) all connected to a single, unique PAN coordinator (acting as a MQTT broker).

Report outline:

1. Custom application layer message definition
2. Connections/Subscriptions management
3. Retransmissions management
4. Messages queue implementation
5. Additional support variables and assumptions
6. Debug channels