



POLITECNICO
MILANO 1863

SCUOLA DI INGEGNERIA INDUSTRIALE
E DELL'INFORMAZIONE

IoT Challenge #2, Exercise Application Layer

INTERNET OF THINGS

Authors: **Kevin Zioldi - 10764177**
Matteo Volpari - 10773593

Professors: Alessandro Redondi, Fabio Palmese
Academic Year: 2024-2025
Version: 1.0
Release date: 6-4-2025

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1 | Exercise temperature sensor and valve

Data

The data of the exercise is reported here.

- $T_{sensor_reading} = 5$ minutes
- $T_{average_computation} = 30$ minutes
- $L_{resource} = L_{topic} = 10$ Bytes
- $L_{payload} = 8$ Bytes
- $E_{TX} = 50$ nJ/bit
- $E_{RX} = 58$ nJ/bit
- Ideal Wi-Fi network
- $E_C = 2.4$ mJ