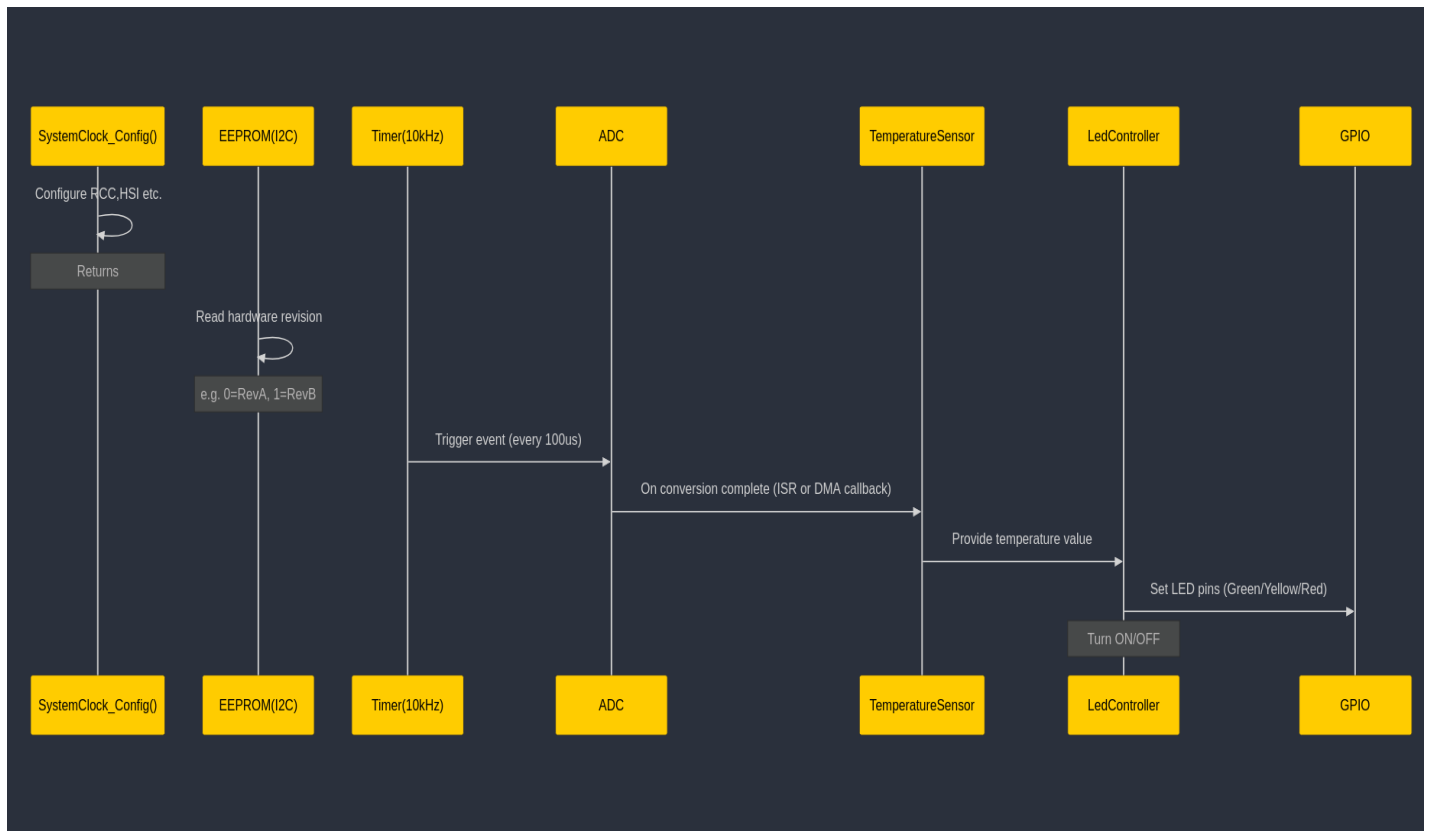


The provided diagrams represent the **architecture of the system**, which is based on an **STM32 microcontroller**.

- A **SysML-style block diagram** (using flowchart syntax) illustrates the high-level **system context**.
- A **UML class diagram** (using classDiagram syntax) models the **C++ code structure**.

To **save time**, some descriptions are provided **as comments directly in the code** rather than in the diagrams.

**SysML-like system overview:**



## UML class diagram

