Embedded System
Code Review

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- Code Review
  - ..
  - Look for
    - Code style & readability
    - Bugs & error handling
    - Maintainability

Look for (1)

- ..
    - Shared data between multiple threads must be protected if it changes.

- ..

    - Global variables tightly couple parts of the code, making it hard to understand and reason about.
    - This is bug prone, especially during maintenance.

- ..

    - Critical sections exclude others from access resources; minimize the time where lock is held.

Look for (2)

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  - Split functionality into smaller modules to reduce cognitive load and improve code reuse.

- ..
  - Seg faults and memory leaks are easy to code if unclear who allocates and frees memory.

- ..
  - Simple logic is easy to write, debug, and maintain.

- Clean shutdown logic (modules & application)
  - Shutdown is hard; easy to lock up or forget to free resources.
  - Clean logic makes it easier to get right.