Embedded Software Techniques For Interviews

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Essential embedded software techniques.

1️⃣ Hardware Manipulation

- In-line Assembly

- Memory-Mapped Access

- Bitwise Operations

- The `volatile` Keyword

- Speed and Code Density

2️⃣ Interrupts and Interrupt Service Routines (ISRs)

- Polling Loop to Interrupt-Driven

- Nested Interrupts

- Re-Entrancy

- Measuring Execution Time

3️⃣ Watchdog Timers

- Why they're essential

- How to configure and use them

4️⃣ Memory Interaction

- Stack vs Heap

- Dynamic Allocation

- Memory Leaks and How to Avoid Them

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