# IMPLEMENTING EMBEDDED SYSTEMS HARDWARE/SOFTWARE CODESIGN

#### Concurrency in Embedded Systems

Concurrency refers to the way multiple tasks or processes run simultaneously on an embedded system.

#### Task Management Techniques:

In implementing embedded systems, task management techniques like prioritization, preemption, and synchronization are used to manage task concurrency effectively.

#### Prioritization:

Tasks can be prioritized based on their importance and urgency. This allows the system to allocate resources to the most important tasks first, ensuring that critical functions are executed in a timely manner.

#### Preemption:

Preemption is the act of temporarily interrupting a task in order to execute a higher priority task. This ensures that the higher priority task gets executed before the lower priority task resumes.

#### Synchronization:

Synchronization is the process of coordinating and managing the execution of multiple tasks in a way that ensures data consistency and avoids race conditions.

# Software Engineering For Embedded Systems Chapter 2 Embedded Systems Hardwaresoftware Co Development

**Robert Oshana** 

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