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Module 4 Discussion

Hi everyone. A washing machine is an embedded system that uses both timers and interrupts. Timers are used in almost every aspect of the cycles of the washing machine. They are used to time the presoak, wash, rinse, and spin cycles. These timers ensure that each stage of the washing process occurs for the correct duration to achieve optimal cleaning results (ASIC, n.d.). The only thing that isn’t controlled by a timer that I can think of is the water level, since it fills until it trips a sensor. It also employs interrupts, such as if you hit the pause button or opened the door. These are actions that require immediate attention and suspend the current action being performed, and once it is resolved, will continue to perform the suspended action again.

ASIC-System on Chip-VLSI Design. (n.d.). Semiconductor tech news and articles. <https://asic-soc.blogspot.com/2007/12/embedded-system-for-automatic-washing.html>