## COP 4610

**Operating System Principles** 

## **Embedded (Real-Time) Systems**

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Re	al-Time	e Systems	
	Real-Time	Explanation	

System	Real-Time Classification	Explanation
Avionics weapons delivery system in which pressing a button launches an air- to-air missile	Hard	Missing the deadline to launch the missile within a specified time after pressing the button may cause the target to be missed, which will result in a catastrophe
Navigation controller for an autonomous weed-killer robot	Firm	Missing a few navigation deadlines causes the robot to veer out from a planned path and damage some crops
Console hockey game	Soft	Missing even several deadlines will only degrade performance
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