

MECHANISMS AND PIC-MICROCONTROLLERS

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On behalf of The World Association of Technology Teachers

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The theme park has invested heavily in animatronics as a form of entertainment whilst people are queuing for rides. What is animatronics?

A range of mechanisms can be used to produce movement in animatronic systems. In the space below draw three different types of mechanisms and explain how they could be used in an animatronic system.

MECHANISM 1 _____

MECHANISM 2 _____

MECHANISM 3 _____

The animatronic system (a clown) seen opposite is composed of two arms that move, a bow tie that revolves and a hat with three ultra bright LEDs. The LEDs light in sequence. It is controlled by a PIC Microcontroller.

What does PIC mean?

Why are bulbs being replaced by LEDs?

