Mini and Cost-Effective Musical Water Fountain

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Abstract

A musical water fountain, also known as a dancing fountain, is a type of animated fountain used to day to decorate city parks and squares; to honor individuals or events that creates an aesthetic design. The musical fountain combines moving jets of water, sound detector, colored lights and recorded music, that controlled by a microcontroller or computer, for dramatic effects. In this paper a mini and low cost musical fountain was designed using Arduino board. Arduino was used to control water valves and create interesting effects in the fountain, like pulses of water that are timed to be in synchronization with music. A transistor also used as switch to turn the fountain on and off according to the music and the particular LED will light up synchronously.

References

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Index Terms

Computer Science

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Keywords

Arduino UNO, DC, IDE, NPN, TIP120