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| REPORT  ABSTRACT |
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|  | Distance Measurement Using Ultrasonic Sensor and Arduino : |
|  | To measure distance using an ultrasonic sensor and Arduino Uno with the help of a display in SimulIDE. The circuit detects change in voltage using a potentiometer and detects distance, be it near or farther and the LCD Displays accordingly. The main aim of the device is to accurately detect a change is distance and voltage at any instant of time using Arduino, Potentiometer and Ultrasonic sensor. This may be useful to detect location and an abrupt change in voltage. |
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|  | Requirements: |
|  | HIGH LEVEL REQUIREMENTS: |
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|  | 1. Ultrasonic Sensor should sense the change in distance |
|  | 2. Display should show too far or too near. |
|  | 3. Potentiometer should regulate the voltage |
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|  | LOW LEVEL REQUIREMENTS: |
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|  | 1. Display should work when 5V is applied |
|  | 2. Should regulate the voltage properly. |
|  | 3. Connections should be made accurately.  APPLICATION:  Measuring distance. |