

DESIGN AND BUILD A DRAG-BASED TIMER ARDUINO UNO

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ABSTRACT

The development of the world of information technology is increasing day by day. Almost all aspects of human life are now inseparable from the influence of technology. Technology can make it easier for someone to do everything, as is the case in the world of automotive sports which is currently increasingly developing. Because on this basis, the need for fast and accurate information technology is becoming increasingly high. The aim of this research is to design a drag timer tool based on Arduino Uno. If the stage 1 sensor detects it then the white LED 1 will light up and if the stage 2 LED detects it is a sign that the driver is ready to start, if the driver is ready then the start button will be pressed and the yellow LED will run and the time will start counting, if the finish sensor detects it then wireless will send data to the Arduino and will be displayed on the P 10 display. In the results of testing the stopwatch on the tool, an average error of 3.22% was obtained, for ultrasonic sensor testing the average error value was 4.95% and for sensor testing distance, the average error value was 6.49%.

Keywords: prototype, software, LCD, Ultrasonic, laser dot point, wireless