

# TOMBOL CERDAS CERMAT WIRELESS BERBASIS ARDUINO NANO

## ABSTRAK

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Lomba cerdas cermat masih sangat di minati di kalangan siswa SD SMP maupun SMA karna selain untuk adu kecerdasan lomba ini juga memberikan ilmu pengetahuan baru bagi siswa itu sendiri, kita tidak bisa mengawasi perlombaan tersebut secara detail, mungkin saja ada kecuran yang sangat merugikan bagi peserta lomba, di samping itu juga kita juga harus waspada dengan alat yang mereka gunakan pada saat lomba cerdas cermat.

Dalam proyek ini telah direalisasikan sebuah alat tombol tekan cerdas cermat wireless berbasis arduino nano. Prinsip kerja alat ini sumber tegangan yang di gunakan adalah battery 12V dan 220V wireless menggunakan transmitter dan receiver, tombol transmitter di hubungkan dengan battery 12V, maka transmitter akan memberikan sinyal kepada receiver dan langsung ke arduino, relay akan mengatur indicator siapa yang menyala dan indicator siapa yang padam saat tombol di tekan otomatis lampu indicator menyala dan buzzer berbunyi.

Kata kunci : *Arduino, Transmitter dan Receiver, Module Relay*

# **ARDUINO NANO-BASED WIRELESS INTELLIGENT BUTTON**

## **ABSTRACT**

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*Quiz contest is still very interested in elementary and middle school students because in addition to fighting intelligence this contest also provides new knowledge for students themselves, we cannot supervise the race in detail, maybe there is a blur that is very detrimental to the competitors, maybe there is a blur that is very detrimental to the competitors, in addition, we also must be vigilant with the tools they use during the race quiz.*

*In this project an arduino nano-based wireless smart pushbutton tool has been realized. The working principle of this tool is that the voltage source used is a 12V battery and 220V wireless using a transmitter and a receiver, the transmitter button is connected to the 12V battery, then the transmitter will give the signal to the receiver and directly to Arduino, The relay will set which indicator is on and which indicator is extinguished when the button is pressed automatically.*

*Keywords: Arduino, Transmitter and Receiver, Relay Module*

