

# **RANCANG BANGUN SMART DISENFECTAN SEBAGAI SISTEM PENCEGAHAN COVID-19 UNTUK RODA DUA DAN EMPAT**

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## ***ABSTRACT***

*The coronavirus began to enter Indonesia in March 2020. The government has made many breakthroughs in containing the virus outbreak, one of which is disinfectants placed in public places. Spraying is often carried out on the street, the village entrance gate, and many government offices/agencies and private companies that have placed these infectious rooms before entering these buildings. Spraying is not only carried out on objects but also on humans. In this study, a disinfectant automizer will be designed as a covid-19 prevention system for two wheels and four wheels. The components used in the study include the Arduin Uno R3 microcontroller, infrared sensor, DFPlayer module, micro SD, IRF520n Mosfet, DC 12V water pump, mini servo and power supply. The working system of this tool starts with detecting objects on the infrared sensor 1. When the infrared sensor 1 detects the object's presence, DFPlayer will emit a voice message, when the object is in front of the infrared sensor 2. The water pump will spray disinfectant. When finished spraying, DFPlayer will send a thank-you voice message, and then the latch will open.*

**Keywords:** Covid-19, Disinfectant, Water Pump, DFPlayer, Servo.