Automatic Door Knob Sanitizer Machine

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Abstract: A rise in COVID-19 transmission risk led people, industries, and the government to adopt different approaches for controlling the spread rate of the virus. This project uses Arduino-Nano, Servo motor, and a servo motor. While each approach has its advantages, one approach in particular -- Arduino-based sanitizing systems -- has played a key role in preventing the spread of Coronavirus due to its cost-effectiveness and flexibility. According to our information, an automatic sanitizer for door handles and knobs that uses IR sensors and servo motors has not been reported so far. Therefore, we have demonstrated an automatic door handle sanitizer which is commonly used in hospitals, houses, and other places to sanitize the handles and knobs. Efforts have been made to prevent Coronavirus infection. A person who gets infected by touching a contaminated doorknob of any organization, house, hospital, etc., will suffer serious repercussions as well as the country in which he lives. By sanitizing the door handle, the said system removes the virus it contains from the door handle as the person touches it. An IR sensor is used to demonstrate the mechanism. To prevent the spread of COVID-19, it can be implemented in places such as hospitals and businesses where the doors are used frequently.

Keywords: Disinfection, Door Knob/Handle, Automation, Arduino, Micro Controller, IR Sensor

REFERENCES


