ABSTRACT

Aerosol machine is one of the medical devices used by health workers. Aerosol machine is controlled by a switch that make user have to go the place of the switch is to turn aerosol machine on or off. The COVID-19 pandmic situation can also cause the spread of aerosol if dentists touch contaminated surfaces and instruments. To make it easier use and provide a sense of security, aerosol machine can be controlled remotely by voice command.

The system to be built is an aerosol machine control system using voice commands based on the Internet of Things (IoT). Voice command processing will use Voice Recognition and Arduino UNO as a microcontroller which will process the voice command as output for the relay. By using IoT, users can monitor aerosol machine remotely.

In this final project from a voice command system as an aerosol engine control, the result is that it can receive voice input from the user with one word or two words with a minimum sound intensity of 68 dB issued the user. This proves that the system can receive voice command input from the user as a control to turn on or turn off the aerosol machine and can send data into the IoT.

Keywords : *Aerosol machine, system, voice command, IoT.*