

The use of UV Light Disinfection Robot to Fight against Covid-19 and other viruses and to use it for different other works

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Abstract

Since the start of COVID, there has been a huge emphasis in sanitizing and disinfecting surfaces in order to stop the spread of the virus. Although, it is not always possible to sanitize/disinfect big areas of space due to mobility issues and the existing methods being deployed are inefficient. Also, using people to sanitize the areas leaves them at risk of being exposed to the virus. Therefore, we have been trying to think of a more efficient way to sanitize/disinfect large areas of space quickly, without having to risk the life a single human being in the process. Alongside all these our aim is to help boost the start of a robotics and service industry in Bangladesh without having to rely on buying Robots from abroad at a much higher cost. This would also aid the job market in Bangladesh by creating more jobs and attract future generations to more high-tech industries like IT due to the opportunities being present. What we have come up with is an Ultraviolet Disinfection Robot which can be used to disinfect larger areas of space with minimal intervention from humans and also serve food and medicines to Isolation Ward Patients. And we have also other products in development So, you must be wondering how exactly will a robot and a light be able to disinfect large areas. Well, this is because UV light provides rapid and effective inactivation of microorganisms through a physical process. When bacteria, viruses and protozoa are exposed to the germicidal wavelengths of UV light, they are rendered incapable of reproducing and infecting. Our UVC robot will automatically maneuver itself around the area and will turn itself on when it does not sense any people nearby and sanitize the area using Ultraviolet Light.

Biography

Farhan Nabi is a Founder at UV Technologies and Robotics