We started off with the idea of multifunctional drone that will detect the air pollutants present in a certain landscape. It will detect the pollutants that are majorly contributing in the air pollution of Dhaka city which are PM10, PM2.5, Carbon dioxide, and Carbon monoxide, Nitrogen oxides (NOX), Sulfur dioxide and Ozone. Our drones with GPS technology will navigate to a certain landscape detect and record the density of air pollutants when above a threshold value. Arduino UNO in the drone will transfer data to raspberry pi and then the data will be sent through a 4G sim (Wi-Fi hotspot) to the server. We will receive the data as user interface.

These drones will also be equipped with air filters (Hepa Mini) that will help purify the air of the landscape (monitored). It will start working right after when the density is detected above the threshold value. The objective is to contribute as little as possible, to put an end to climate change and global warming and to improve the AQI (air quality index). So when the air quality of cities will be better, citizens would be suffering less from diseases. Our project will be beneficial for preserving the nature and for human health. It is both cost and energy efficient. It won’t even require labor force either.