**A.R.E.S**

**(Autonomous Region Explorer and Surveyor)**

**ABSTRACT**

The project that we are proposing is a drone which can map an area autonomously. This map would contain the entire area in wireframe so that any and all aspects of the area can be obtained. This enables the user to foresee the environment he has to encounter. Our main focus is to optimize this project to be used in the field of disaster management and rescue operation. Since its autonomous, the drone itself can move into the location without the need for any personal guidance. There are other sensors mounted on the drone that not only maps the surroundings but also analyses the environment for various other factors like temperature, pressure, radiation etc., allowing the rescue teams to prepare themselves before moving in. Other fields of application include cave exploration and surveying.

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