ABSTRACT

Fire is a situation or event where a building in a place is hit by a fire that causes losses or casualties. This makes the fire classified as a disaster. In Indonesia, especially in big cities, there are lots of houses that are close to each other, which is an area that is very vulnerable to consecutive fires. Housing that a narrow alley also makes it difficult for the fire brigade team to access the fire location, because the large size of the fire truck and also access to housing that has narrow and winding routes or roads can make time effectiveness in handling fires ineffective, due to fire can quickly spread from one house to another. Firefighting drones are designed as a tool capable of solving firefighting problems that are non-accessible housing area to trucks and fire fighting teams. This design uses the SCAMPER method, namely modifying existing products into new innovative products. This drone is made to have a wide spraying range and has the advantage of being able to carry water and hoses directly to hotspots in dense areas, besides that the drone is also able to extinguish the fire at a height so that officers do not have to risk their lives because they have to climb stairs.

***Keywords**: Drone, Fire, Fire Fighter*