

ABSTRACT

Floods often occur in the city of Bandung has raised many substantial losses such as damage to public infrastructure and also hamper the work system, education and the economy of this area. Due to frequent flooding in this city, we need a tool that directly monitor the situation at the time of the flood.

But for maximum monitoring, we need a tool that can traverse the kinds of obstacles and a variety of mediums. The tool is Hovercraft, an amphibious mini vehicle that can traverse the terrain of land, water, mud and fields of mangroves and resistant to all weather conditions, driven using three propeller for hovering and maneuvering that is also equipped with a camera to monitor the flood situation in the South Bandung ,

Hovercraft use arduflyer for control systems, as well as transform, display and mechanical systems using servo motors to move the flaps. Hovercraft uses a brushless motor as a lifter and two brushless motors as driver.

Keyword: Hovercraft, Flood Observer, Arduflyer, Brushless