

*Conceptualised by a team of six students from the Nanyang Technological University (NTU), the Red Hound – Surveillance and Rescue is a remote-controlled mini vehicle that is equipped with surveillance and communication features. This vehicle can be deployed by firefighters during missions to assess and gather data regarding the fire scene and facilitate survivors search.*

*Data collection of the fire scene can be carried out with the temperature and humidity sensor and FLIR Dev Kit thermal camera. An audio streaming capability allows transmission of important messages to any trapped survivors in the fire scene. An additional normal live camera also enables this vehicle to be deployed at other disaster zones for survivors search.*

*The features of the mini vehicle include being lightweight, compact, fire resistant and having high maneuverability to navigate obstacles in fire scenes. This vehicle is remotely controlled with a Raspberry Pi and Wifi module and comes with an intuitive web interface for easy control.*

*With its ability to gather fire scene information and enhance survival rate, the Red Hound will be a valuable asset to firefighters during their missions.*



