Abstract

Drones have a unique history in which started with being used for military applications and only in recent history to be used by private and commercial users. In the right hands drones can be a force for good, go where people cannot go and saves lives, whereas in the wrong hands drones have the potential to cause insurmountable collateral damage, especially in warfare. The aim of this project is to find a solution to counter drones which a discussion of different methods will be given such as an early warning system, signal jamming with software define radio(SDR) to detect signals and this will be used to assess the effectiveness on this. Drones are controlled between the frequencies of 2.4GHz to 5.8GHz. Although the signal can be jammed at 1.5GHz through the use of GPS spoofing a drone's location can be false which may can cause a drone to either not fly or receive a signal from the flyer. In addition to this, experimenting with signals between 2.4GHz - 5.8GHz and will decipher whether signal jamming will counter drones effectively as well as other methods such as review of GPS spoofing.