ABSTRACT

In this modern world the method of tracking a lost laptop using software has not been effective. the reason why laptop owners know their laptop is stolen when they themselves find that their laptop is stolen. Tracking a laptop can be done when the laptop is connected to the internet while the laptop is taken away it will be disconnected from the home internet. Not to mention when tracking, the identity of the thief is not known because it is still not effective enough to take pictures of thieves who focus on laptops. Therefore, a thieves tracking and image capture device is needed.

In this Final Project a laptop tracking system is designed with Ublox Neo 7m and SIM800L V2. The Ublox Neo 7m module acts as a satellite transmission receiver to get latitude and longitude coordinates for laptop. SIM800L V2 to perform and provide connection to the internet network. The image capture system uses wireless communication on the image capture device with a sensor attached to the tracking device with the purpose of hiding the presence of the device from thieves and the tool takes pictures automatically based on the sensor.

The results of the laptop tracker test are obtained for all coordinate points and sent to users with an average deviation of 3.5 meters caused by environmental factors and device power consumption is 15.1496 Wh. The design of taking pictures can be done wirelessly with the ESP-NOW protocol and the images appear in the chat column of the LINE application as well as the shape of the device resembling an air freshener with a device power consumption is 2.856 Wh.

Key Word: *Laptop, Tracking Device, Taking Thief Picture, Wireless, ESP-NOW, Air Freshener.*