CHAPTER 3

METHODOLOGY

3.1 INTRODUCTION

In this project, OpenCV will be used as the medium to run the programming which we compiled in Ubuntu terminal where Ubuntu is a software which is similar to Windows known as Linux.

Figure 3.1: Block diagram of UAV with night vision camera for tracking intruder.

The image of the intruder can be seen from the video captured by the night vision camera which attach to the unmanned aerial vehicle (UAV). The main objective is to detect the present of the intruder at dark environment basically at night. The parameter for the detection is should be set which is known as the amount of ground light needed for the detection because when there is totally dark, the images captured are not

Wireless night vision camera from UAV

Interface the camera with the software in computer

Analyze the amount of ground light needed to track intruder.

Tracking of the intruder can be detected with the equivalent of light intensity amount.

Histogram graph will be showing the parameter which we set
precise and clear, thus a small amount of ground light intensity are required in order to track the intruder.

3.2 FLOW CHART

![Flow Chart]

Figure 3.2: Flow chart
3.3 GANTT CHART

Semester 1

Table 3.1: Semester 1 Gantt chart

Semester 2

Table 3.2: Semester 2 Gantt chart