

## **ABSTRACT**

The human face consists of several parts that has its own characteristics, which stretches from the forehead to the chin like the hair, forehead, eyes, nose, ears, cheeks, lips. Research on face recognition seems to be much revolves around security. Research about the security of face recognition to identify a person based on digital images or video that included

Final discusses the techniques to recognize human faces using the method of Eigenface. Feature extraction using Eigenface the stage to look important features that represent an image. The previous research is performed by Prospero C. Naval Junior [3] using *Kernel Eigenface* methods and *Support Vector Machine*, in this study using *ATT Face dataset* containing 10 greyscale images of 40 different individuals

Research on final project is part of the initial stages to build a Presence system as a whole. This research has been done by using eigenface method to be able to recognize a face image taken using the webcam and it tested based on eigen parameters with 85.83% accuracy.

**Key words:** *Face recognition, Eigenface, Digital Image Processing*