

## **ABSTRACT**

Face recognition is a biometric technology that has been widely applied in the security system besides retinamata recognition, fingerprint recognition and iris. In the application, face recognition uses a camera to capture a person face then the capture results are compared to the face that had previously been stored in a spesific database.

This final project will using method Histogram Equalization. Method Histogram shall process the original images to enhance the useful information. Then the image processing used respectively on SIFT algorithm to achieve and matching feature points on the image.

By matching faces on Raspberry Pi using Histogram Equalization and SIFT algorithms, image matching success rate can reach 80% with a total process time of less than 20 seconds.

**Keywords:** Face Recognition, Histogram Equalization, SIFT Algorithm