

## **ABSTRACT**

ADAS (Advance Driving Assitance System) is one technology in the field of transportation that has been developed by several manufacturers of vehicles for the purpose of safety and comfort in the vehicle. One example of such technology is the detection and recognition of traffic signs.

In this final project will conduct research related to road sign by creating a system that can detect and recognize road sign. To detect and recognize road sign will use HOG (Histogram of Oriented Gradient) and using CNN (Convolutional Neural Network) method.

Output of this final project is the system can detect road sign with 98% accuracy and recognize road sign with 99% accuracy to get information about the road sign.

Keyword: sign detection, sign recognition, CNN, HOG