

## **ABSTARCT**

*In this era, the development of technology in the world of transportation is so rapidly, autonomous driving is one of the many technological developments in the wolrd of transportation. The system requires several aspects of support, one of the example support aspect is lane detection used to detect line markings on the roads.*

*In this research, the authors would conducted a research using a lane detection system to detect the marker line on the road as an aspect supporting the autonomous driving system. In this research the method used is Hough Transform which will get the feature of an image to detect a marker in the form of a line that is useful for drivers to be drive inside the marker line of the roads.*

*Thus, With this lane detection system, it is expected to be one of technology that can improve the aspects of autonomous driving and could facilitate and provide security and safety of the drivers.*

*The result of this final project is the system can detect line marks during the day with 12fps fram rate and resolution of 144p with 80% success rate with speed limit 80km/h.*

**Keywords :** *Autonomous Driving, Hough transform, Lane Detection, Lane Marker.*