ABSTRACT

The development of technology is growing more rapidly, one of them is a car robot

without a driver who can help navigate the car to drive. The navigation is designed to determine

the direction of the steering wheel to walk along the track properly.

In this final project, an image processing algorithm is designed to help navigate

miniature cars. The design of this algorithm uses the Python programming language and has

the OpenCV library. In this final project has an image as an input while for the output in this

final project is to have a miderror value to find out the position of the car in the middle of the

track or not.

The results of this Final Project Miderror obtained in Python and measured on the ruler

has an average error value of 10.05433%, and identification of the shape of the path can

distinguish between straight, right turn, and left turn.

Keywords: Robot Self Driving Car, Image Processing, Miderror