ABSTRACT

Transportation has become a basic necessity for humans. Boat is one of them, namely water transportation that is still in demand especially by fishermen on the coast. The fishermen put their boat on the shore. Because there are many boats and the start engines are still manual, then the safety of the boat itself needs to be considered.

Based on the above problems, it is necessary to make a barcode system as an automatic start engine on a boat as a solution. In this Final Project, an image processing-based automatic start engine system will be implemented. Towards the Age of Industrial Revolution 4.0, image processing is used for advancing technology or visual computers. In this designed security system the author uses a barcode as a password code to operate a boat that has met security aspects.

With the existence of first checking system on the security aspects for using a barcode, it will improve the security system on the boat. As well as having a good performance, with the rate of accuration is 85%, the required processing time is 72.81 seconds with the percentation is 83.3%.

Keywords: Barcode, Image Processing, Boat.