

ABSTRACT

Indonesia is archipelago in the world. The islands it's make region sea is very large than land. That is one crucial for a nation to merge and control. From it's, navigation is very important for solution and to help problem for archipelago. The navigation system, we can get more information about: position places, timing, paging, and more information will be transmitted.

This time navigation system authorize from super power country example USA. That is can to make a serious problem if it's un-like with once country in the world. Now we can get information place from GPS with satellite for helped. In the my final project this time, I will to view and explain a LORAN as a navigation technique.

The LORAN used radio terrestrial system as functional to conduct ground wave radio. With a used ground wave, to hope a coverage area is large for one cell. That is can reduce device, reduce cell and budget development.

This final project consist about design device LORAN system at IF and RF for one cell. A cell LORAN available with one master control station, and two sleeve stations. The other way, in my final project will be design a sample receiver from LORAN system.

The information to transmitted is: position, timing, and information broadcast to civil (example: earthquake, tsunami, etc).