

## SUMMARY

In this thesis project wireless scan sonar automatic bottom was developed that is designed to measure depth. We developed its design and electrical circuit. In this work were discussed such issues: possible methods of measuring depths in a liquid medium, including acoustic echo sounders were discussed and their possible construction.

Also, the electrical circuit was designed and principal were calculated and selection of each element of the scheme. The assembly drawing system and its individual parts were developed. The design of such systems makes it possible to measure depth in a liquid medium and provides maximum stability on the surface.

In the economic part of the calculation the estimate value of the product was obtained and it showed that the device will cost not more than its counterparts. In the health and safety part the analysis of dangerous and harmful factors that act on workers during construction was developed.

Tags: sonar, depth gauge, ultrasound.