

## **Abstract**

This bachelor's thesis examines the possibility of finding better or more advanced technology to replace traditional maritime pulse-based radar. The theoretical part gathers information on various radar technologies and similar technologies, describing the operation and application areas of radar, and includes relevant laws and regulations.

The qualitative method was chosen by the group, and multiple interviews with experts in the field were conducted. The qualitative approach was selected to gain a deeper understanding of the subject area and to allow for input from the interviewees during the interviews. The literature review was conducted using online sources and specialized books. Much of the literature used is derived from Norvald Kjerstad's book "Electronic and Acoustic Navigation Systems."

As future navigators, the group is concerned with and interested in the existing technology and the potential technologies that may become relevant in the future to ensure safe navigation. Therefore, the information obtained from the literature review and the interview results were discussed in relation to each other in the discussion section. The discussion aims to address relevant questions in order to answer the research question. The group has reached a conclusion based on the situation around maritime radar as it is today, which may be subject to change in the future.