

## **ABSTRACT**

Remotely Operated Vehicle (ROV) is a type of unmanned underwater submarine. Currently, ROV is a media that is widely used to explore underwater without having to enter the water. But in daily use there are often problems in the use of both technical and non-technical ROV. To reduce these problems, a study was conducted to improve the conditions and also the position of the ROV while in water.

Among the conditions monitored in the ROV include: Slope position which requires when the ROV is operated, to determine the depth of the ROV when compiling using an water pressure sensor. As for the position used by GPS and sensors that can be used, users can understand the location of the ROV when operated.

The result of this research is to make a device placed in the ROV to place and position the ROV. With parameters determined for displacement consisting of 0-45°, depth of ROV in water is 1-2m. For the navigation system, the location is in the form of longitude and latitude from GPS, and GPS capability is needed to define the location.

*Keywords: Remotely Operated Vehicle (ROV), Water Pressure, Slope position, GPS.*