Underwater ROV

1 Introduction

The project "UNDERWATER ROV" targets the aquatic or marine region for its working. This project is basically a drone that has its operation inside the water body. Remotely operated underwater vehicles (ROVs) are remote control underwater robots driven by an individual on the surface. The ROVs will be equipped with a video camera, propulsion system, and lights. The propulsion system is responsible for the movement of the ROV in the water.

2 Objective

This project is designed to dive inside the water body and acquire the information user needs.
The project can provide information regarding the various aquatic species or to assist in search and rescue operations.
Other than this, the project can also be used for underwater video graphy and to assist the divers.

3 Hardware Components

NodeMCU
Wi-Fi Camera
LED Panel
DC Motor
Breadboard Power supply
Propeller
Battery
Temperature Sensor
Mobile Display
L293D Motor Driver
Switch

4 Software Used

Arduino IDE
Blynk App
V380 App

5 Project Cost

The total project cost is approximately 9 Thousand.

6 Application

These types of ROVs can help us understand the marine life in a better way.
ROV Can be used for search and rescue operations.
To assist the underwater divers.
To know the ideal areas for fishing.
To monitor the sea beds and to preserve and clean the water bodies.