Literature Review:

UNDERWATER ROBOT USING RASPBERRY PI WITH WIRELESS COMMUNICATION

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Original Link:
http://ijariie.com/AdminUploadPdf/UNDER_WATER_ROBOT_USING_RASPBERRY_PI_WITH_WIRELESS_COMMUNICATION_ijariie10057.pdf

Summary:

The robot will be operated on the water to detect underwater metal resource. Specially base on raspberry pi and raspberry pi is run by using python language is high level language. Robot is going to control under the water using Zig bee wireless communication system. For robot mobility action under the water wireless communication is efficient. Once the communication occurs then we can easily operate underwater robot or vehicles from a communication device at the surface. Underwater wireless communication and can be used for civilian and military application such as data collection, specific ocean sampling, pollution and environmental monitoring with using modern controller.

Sensor: Temperature Senor (LM35)

Communication Device: Zig bee

Others Hardware:

- Metal Dectector.
- DC motor.
- L293D
- Camera
- Raspberry pi

Pros:

- Multipurpose: The robot can be used in multiple operations and can be worked for the different and multipurpose systems.

- They can endure physical conditions that are uncomfortable or even dangerous which causes risk to humans. The robot can easily be handled in such situations.

- They can operate in airless conditions where oxygen or air not present and human can't go the robot can move there and can perform operation in better way.

Cons: