

# **Project Title : AI based aquatic drone for drowned human body detection and water quality monitoring through IoT**

## **Project Area : Robotics and Drones**

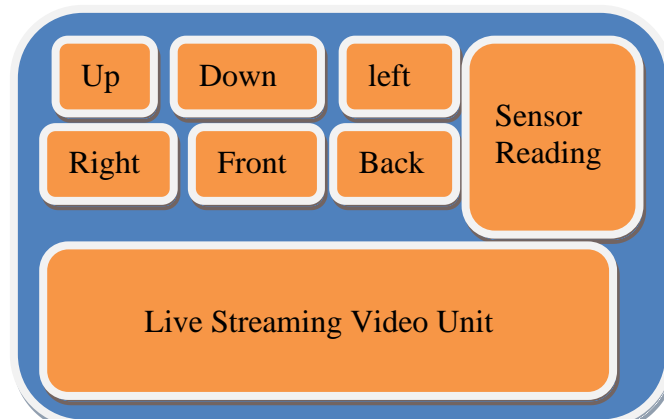
### **Student Details :**

Sl.No	Name	USN	Sem & Year	Email	Ph No.
1	Jagadeesh D	1NH16EC034	7 <sup>th</sup> Sem (4 <sup>th</sup> Year)	<a href="mailto:djagadeesh99@gmail.com">djagadeesh99@gmail.com</a>	7829442637
2	Hari Prasad R	1NH16EC032	7 <sup>th</sup> Sem (4 <sup>th</sup> Year)	harirrs5@gmail.com	8310269626
3	Girish Jattu Gouda	1NH16EC031	7 <sup>th</sup> Sem (4 <sup>th</sup> Year)	girishgouda10@gmail.com	8105705844

### **Faculty Details :**

Naveen H  
Assitant Professor,  
Department of Electronics and Communication,  
Email Id: [naveens.h.gowda@gmail.com](mailto:naveens.h.gowda@gmail.com) Ph.No: 9986562655

**Abstract**— One of the major problems faced by NMCG (National mission for clean Ganga) is finding drowned human bodies inside the water. It is not easy for a us to get into the polluted water to find a drowned body, so this projects aims to solve this major problem, where the ROV is fitted with a VGA camera which records a video of up to 1080p resolution. Since the wireless transmission cannot be implemented underwater we use the concept of artificial intelligence (AI), where the ROV is programmed with all possible conditions and probabilities which enables it to dive into the river floor and record a video of the surrounding, and move up to the surface to transmit the data to the user, so that we can detect the presence of drowned human body and further actions can be implemented. The secondary use of this project is to monitor the water quality using pH sensor which measures the amount of acids or bases present in the water. DO (Dissolved Oxygen) senor is for measuring the amount of Oxygen content in the water through which the prediction of life sustainability can be determined. DM (dissolved mercury) sensor is for measuring the amount of dissolved mercury which is the waste particles let out by industries near-by. All these measurements and readings will be given to the team of NMSG for further decisions.



**Figure 1: Block Diagram**

