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IoT Based Water Pollution Monitoring RC Boat

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Abstract: The Water pollution poses a serious threat to aquatic ecosystems and human health, necessitating effective real time monitoring solutions. This project presents an IoT-based water pollution monitoring system integrated into a remote controlled (RC) boat, designed to collect and analyse water quality data from various water bodies. The boat is equipped with sensors to measure key parameters such as pH, turbidity, temperature, and dissolved oxygen levels. The collected data is transmitted wirelessly to a cloud platform via IoT modules, allowing for real-time monitoring, data logging, and remote access. This mobile and cost-effective solution enhances the accessibility of water quality monitoring, particularly in hard-to-reach or hazardous areas. The system can assist environmental agencies and researchers in making data-driven decisions to address water pollution challenges

Keywords: IoT, Water Pollution, RC Boat, Real-Time Monitoring, Water Quality Sensors, pH, Turbidity, Dissolved Oxygen, Environmental Monitoring, Smart Water System

