

IoT application for managing aeration systems in aquaculture ponds

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Abstract: This topic aims to research and apply Internet of Things (IoT) technology to effectively manage the aeration system in aquaculture ponds, meeting the requirements for a suitable living environment for aquatic species. The objective is to build an IoT system that automates the entire aeration process to increase the productivity and quality of aquaculture products. The research method includes identifying key indicators for monitoring, designing, and deploying the IoT system at a real aquaculture farm. The expected results will contribute to the development of IoT technology in sustainable agriculture, helping to improve management efficiency and productivity of aquaculture ponds.

Keywords: IoT, Aeration system management, Aquaculture, Smart technology, Sustainable agriculture